MMM MMM MMM MMM MMM MMMMM MMMMMM MMMMMM MMM MM MMM MM MMM MMM MMM MMM	000000000 000000000 000000000 000	NNN NNN NNN NNN NNN NNN NNN NNN NNN NN	
MMM MMM	00000000	NNN NNN	111

LI

LO LO MA MO MO MO MO MO

MC

**	11	F		D.	*1	ION	IT	A
			- 4	-	- 4	IV		

MM MM MMM MMM MMM MM MM MM MM MM MM MM	000000 00 00 00 00		TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	AAAAAA AA AA AA AA AA AA AA AA	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	
		\$				

MOU'

VAX-11 Bliss-32 V4.0-742 Page 1 DISK\$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1 (1)

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These routines handle the mounting of magnetic tape

VAX/VMS operating system, including privileged system services and internal exec routines.

CREATION DATE: 05-Dec-1977

10-Aug-1984

HH0041 Hai Huang 24-Jul-1984 Remove REQUIRE 'LIBD\$:[VMSLIB.OBJ]MOUNTMSG.B32'.

20

MOU VO4

2E 3D 4E 20

4E 20 20

20 20

MOUTAP V04-000		N 13 16-Sep-1984 01:24:03 VAX-11 Bliss-32 V4.0-742 Page 2 14-Sep-1984 12:45:31 DISK\$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1 (1)
: 58 : 59	0058 1 ! 0059 1 !	V03-019 HH0035 Hai Huang 10-Jul-1984 Fix truncation errors.
61 62 63 64	0058 1 0059 1 0060 1 0061 1 0062 1 0063 1 0065 1 0066 1 0066 1 0066 1 0068 1 0069 1 0070 1 0071 1 0072 1	V03-018 MMD0290 Meg Dumont, 10-Apr-1984 14:41 Fix to the return from \$MTACCESS code were ACCESS could be set to normal processing with out processing all the possible error conditions.
66 67 68	0066 1 1 0067 1 1 0068 1	V03-017 LMP0221 L. Mark Pilant, 28-Mar-1984 10:03 Change UCB\$L_OWNUIC to ORB\$L_OWNER and UCB\$W_VPROT to ORB\$W_PROT.
58 59 6123 665 667 669 77 77 77 77 77 78 81 88 88 88 88 88 89 91	0073 1 1 0074 1 1 0075 1 1 0076 1 1	V03-016 MMD0270 Meg Dumont, 23-Mar-1984 9:29 Change the processing of the accessibility character fields in the V0L1 and or HDR1 label to call the installation specific accessibility routine. The return from this routine determines the users access to the volume and/or file. This support includes saving the ANSI version number from the V0L1 for future processing of the file header accessibility field.
79 80 81	0078 1 1 0079 1 1 0080 1 1 0081 1 1	V03-015 HH0002 Hai Huang 01-Feb-1984 Add job-wide mount support, i.e. always deallocate mount list entry to paged-pool in condition handler.
83	0082 1 ! 0083 1 ! 0084 1 ! 0085 1 ! 0086 1 ! 0087 1 ! 0088 1 !	V03-014 HH0001 Hai Huang 16-Jan-1984 14:52 Fix bug in privilege check code.
86 87	0085 1 0086 1 0087 1	V03-013 MMD0215 Meg Dumont, 3-Jan-1984 16:04 Fix bug in protection check code.
	0089 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V03-012 MMD0199 Meg Dumont, 25-Aug-1983 10:12 Fix bug where if /PROTECTION is specified SYSTEM and OWNER are not given access to the tape. SYSTEM and OWNER should always have access to mounted tapes.
94 95 96 97	0094 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V03-011 MMD0186 Meg Dumont, 7-Jul-1983 9:59 Make the default for AVL/AVR the same from the DCL call and from the system service call.
99	0098 1 0099 1 0100 1	V03-010 DMW4042 DMWalp 7-Jun-1983 Remove (S)LOG_ENTRY
102 103 104	0102 1 1 0103 1 0104 1	V03-009 MMD0179 Meg Dumont, 26-May-1983 15:15 Change VOL1 to indicate ANSI level 4 when writing a SYSTEM CODE in the VOL1 label
92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 110 111 112	0106 0107 0108 0108 0109 0110 0111	V03-008 MMD0136 Meg Dumont, 12-Apr-1983 17:29 Added support for writing and interrupting the V0L1 JWMER IDENTIFIER field, so that it is no longer treated as a VMS field, strictly. Added support for the underscore as a valid character to tape.
113	0113 1	VOI-007 MMD0113 Meg Dumont, 29-Mar-1983 0:27 Added support for setting AVR, AVL. Added support for new VMS

MOU'

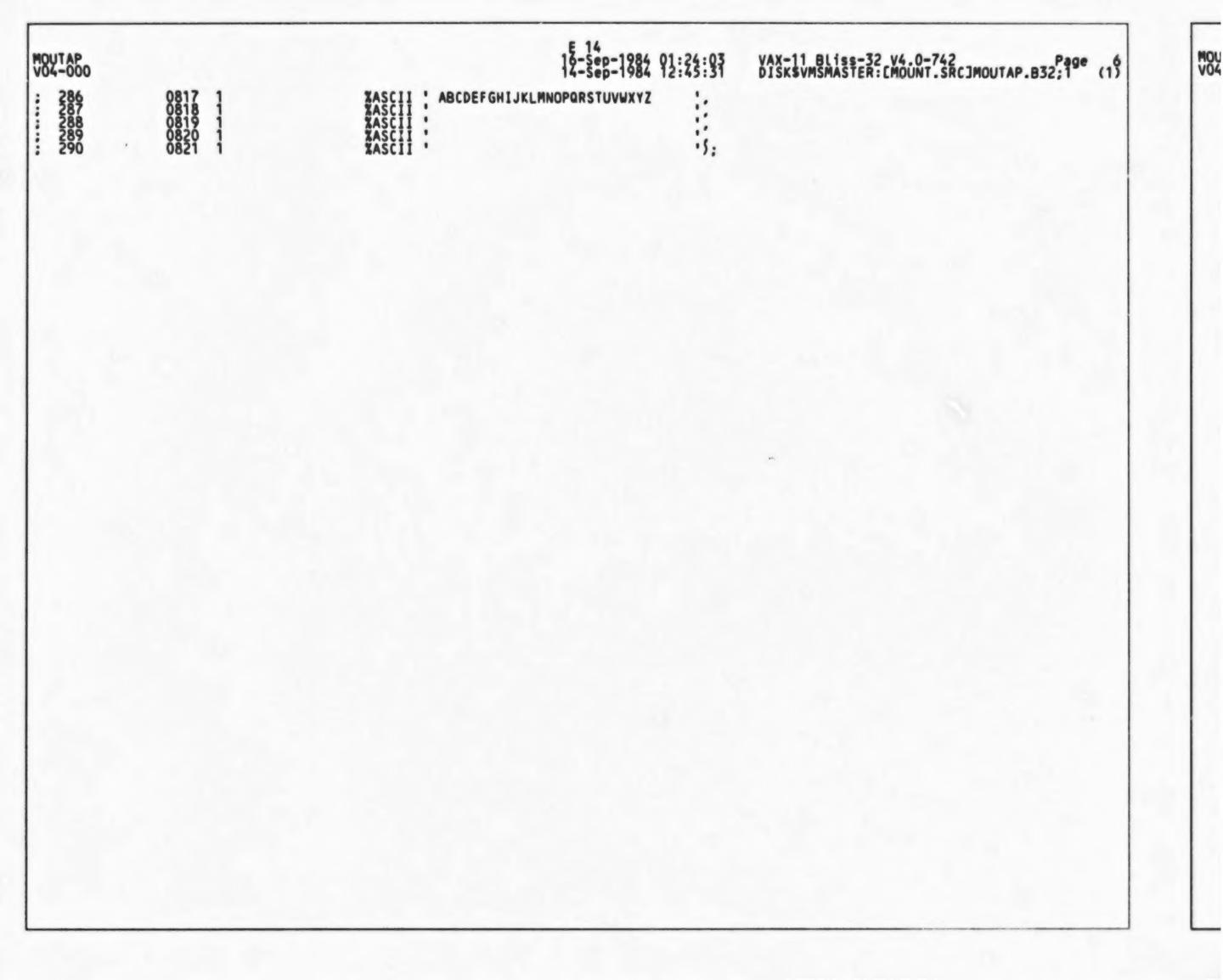
- 1	MO
- 1	HU
- 1	VO
- 1	AA

MOUTAP V04-000		B 14 16-Sep-1984 01:24:03 VAX-11 BLiss-32 V4.0-742 Page 3 14-Sep-1984 12:45:31 DISK\$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1 (1)
: 115 : 116 : 117	0115 1 1 0116 1 0117 1	protection on tape, which includes understanding a VOL2 label. Also reformated so that routines common to INIT, MOUNT and the MTAACP could all be shared.
119	0119 1 V03-0	06 MMD0105 Meg Dumont, 17-Feb-1983 13:25 Changed call to CLEAR_VALID to issue a IO\$_AVAILABLE
122	0122 1 V03-0	05 MMD0002 Meg Dumont, 3-Jan-1983 14:50 Allow user with read access to tape to mount it writelocked.
125	0124 0125 1 V03-0	04 MMD0001 Meg Dumont, 13-Aug-1982 13:07 Change from call to SET_VALID to QIO IO\$_PACKACK
128	0127 1 0128 1 V03-0	3 STJ0302 Steven T. Jeffreys, 18-May-1982 Add support for /NOUNLOAD qualifier.
115 116 117 1189 1123 1123 1123 1123 1123 1133 1133 113	0130 1 0131 1 V03-0	02 STJ0261 Steven T. Jeffreys, 22-Apr-1982 Do not mung device allocation access mode. Set the DEADMO bit properly for multi-volume mounts.
135	0135 1 V03-0	O1 STJ0255 Steven T. Jeffreys. 04-Apr-1982 Use common I/O routines where possible.
138	0138 1 V02-0	22 STJ0154 Steven T. Jeffreys, 02-Jan-1981 Fix external references to use general addressing mode.
141	0141 1 V02-0	21 DMW0018 David Michael Walp 17-Dec-1981 Increase the size of the translation table to 256
144 145 146	0144 1 V02-0	20 DMW0017 David Michael Walp 3-Dec-1981 Return non-ANSI characters as space and fix edit cut and paste error (wrong index)
	0149 1 !	9 DMW0016 David Michael Walp 15-Sep-1981 Uppercase and set NOT Unused the MVL entries.
151 152 153	0150 1 0151 1 V02-0	8 STJ0121 Steven T. Jeffreys 10-Sep-1981 Make descriptor references use symbolic offsets.! Checked in a new source.
149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170	0155 1 V02-0	7 DMW0015 David Michael Walp 18-Jul-1981 Upcase Volume labels, Added 1st Reel Volume Protection and UIC, handles BAD UICs in VOL1
159	0159 1 ' V02-0'	6 DMW0012 David Michael Walp 30-Jul-1981 Store need privilege mask in MVL
162	0162 1 V02-0	5 DMW0011 David Michael Walp 22-Jul-1981 Detect write ring. Prompted by SPR
165	0165 1 V02-0	14 DMW0010 David Michael Walp 20-jul-1981 Reset the blocksize when the density is reset.
168	0167 1 0168 1 V02-0 0169 1	3 DMW0009 David Michael Walp 6-Jul-1981 Clean up defaulting of density.
170	0170 1 v02-0	2 DMW0006 David Michael Walp 10-Jun-1981

```
MOUTAP
VO4-000
                                                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                                   0172
0173
0174
0175
0176
0177
0178
0179
                                                                                         Major rewrite of MOUNT TAPE code to allow operator assist to work. The loop that was in MOUNT TAPE to ALLOCATE and ASSIGN devices is now in the MOUNT VOLUME. READ VOLLABEL and MOUNT TAPE may now be called more than once ( if more then a single device is specified to be used ).
      VO2-011 DMW0004 David Michael Walp 11-May-1981 Stuffed volume access character in MVL and require VOLPRO or UIC ownership to MOUNT/FOR an ANSI tape.
                                                                                                                                                                                   11-May-1981
                                                                       V02-010 DMW0003 David Michael Walp 27-Apmade "/FOREIGN" and "/NOLABEL" work the same
                                                                                                                                                                                   27-Apr-1981
                                                                                         DMW0002 David Michael Walp 14-Apr-1981
Added V3 volume accesiblity code, cleaned up protection holes,
added storage of ANSI volume file set id in MVL.
                                                                       V02-009 DMW0002
                                                                                         RLR36704 Robert L. Rappaport 2-April
Correct the problem of MOUNT returning SS$_VOLINV when
the MOUNT command follows a DISMOUNT/NOUNLOAD sequence
                                                                       V02-008 RLR36704
                                                                                                                                                                                                     2-April-1981
                                   0190
0191
0192
0193
0194
0195
0196
0197
0198
0201
0736
0737
0738
0741
0743
                                                                                          in a command procedure.
                                                                                                                             Andrew C. Goldstein.
                                                                       V02-006 ACG0169
                                                                                                                                                                                  18-Apr-1980 14:02
                                                                                         Bug check on internal errors
                                                                       V02-005 ACG0167
                                                                                         ACG0167 Andrew C. Goldstein, 18-Apprevious revision history moved to MOUNT.REV
                                                                                                                                                                                  18-Apr-1980 13:38
                                                      1 **
                                                     LIBRARY 'SYS$LIBRARY:LIB.L32';
REQUIRE 'SRC$:MOUDEF.B32';
                                                     FORWARD ROUTINE
                                                                       ERROR_HANDLER.
                                                                                                                                                                     handler to clear valid on secondary UCB's
                                                                       KERNEL HANDLER : NOVALUE,
MAKE TAPE MOUNT,
MOUNT TAPE : NOVALUE,
READ VOLLABEL,
RESET DENSITY : NOVALUE,
                                                                                                                                                                     kernel mode exception handler kernel moude tape mount
                                                                                                                                                                 mount magnetic tape
read and verify VOL1 label
reset the density default
set device characteristics
                                                                                                         : NOVALUE;
                                                                       SET_CHARACTER
                                                     EXTERNAL ROUTINE
                                                                      ALLOC LOGNAME,
ALLOCATE MEM,
CHECK PROT,
ENTER LOGNAME,
GET_CHANNELUCB,
GET_RECORD,
LIB$CVT_OTB
                                                                                                                                                                     allocate logical name
                                                                                                                                                                     allocate memory
check the UIC protection
enter logical name
get UCB from channel
                                                                                                        : ADDRESSING_MODE (GENERAL), ! lock I/O data base
: ADDRESSING_MODE (GENERAL), ! lock I/O data base
: process VOL2 label
: send message to error logger
: startup ACP
: determine owner and
: protection of tape
                                                                                                                                                                      get current record drive is reading
                                                                       LIBSCVI OTB : AT
LOCK_IODB : AT
PROCESS_VOL2_LABEL,
SEND_ERRLOG,
START_ACP,
TAPE_OWN_PROT,
                                                                        TRAN_LOGNAME.
                                                                                                                                                                     translate logical name
```

```
MOU
VO4
```

```
MOUTAP
VO4-000
                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                              0760
0761
                                                             UNLOCK_IODB
                                                                                           : ADDRESSING_MODE (GENERAL); ! unlock I/O database
     0762
0763
0764
0765
0766
0767
0768
0769
                                             EXTERNAL
                                                            BLOCKSIZE,
CHANNEL,
CLEANUP_FLAGS
CLEANUP_ALLOC
CTL$GL_VOLUMES
DEVICE_CHAR
                                                                                                                                             value of /BLOCKSIZE:
                                                                                                                                            channel of tape being mounted cleanup flags
                                                                                           : BITVECTOR, : BITVECTOR,
                                                                                          : ADDRESSING_MODE (ABSOLUTE),
                                                                                           : BBLOCK,
                                                                                                                                             characteristics of device
                                                                                                                                              current being mounted
                              0771
0772
0773
0774
0775
0776
0777
0778
0779
0780
                                                             DEVICE_INDEX
                                                                                                                                             index into the device and label lists
                                                                                            : LONG VOLATILE.
                                                            MOUNT_OPTIONS
LABEL_COUNT,
RECORDSZ,
                                                                                           : BITVECTOR.
                                                                                                                                             mount option bits
                                                                                                                                            number of labels specified value of /RECORD:
                                                                                           : BBLOCK;
                                                             VOL1
                                                                                                                                            VOL1 label
                                             LITERAL
                                                            PROTO_RVT_LEN
PROTO_MVL_LEN
                                                                                           = $BYTEOFFSET (RVT$L_UCBLST) + (4*DEVMAX),
= MVL$K_FIXLEN + (MVL$K_LENGTH*LABMAX);
                                             OWN
                                                            ACCESS,
ANSI LABEL
BLOCKSZ
FIRST V UIC,
FIRST V PROT,
IO STATUS
LABEL VER,
PRIVICEGE MASK
PROCESS UIC,
PROTO_VCB
                              0782
0783
0784
0785
0786
0787
0788
0790
0791
0792
0793
0794
0795
0798
0799
                                                                                                                                             user's access to magnetic tape
                                                                                           : BBLOCK [80],
                                                                                                                                             buffer to store labels
                                                                                           : WORD.
                                                                                                                                             block size for this volume
                                                                                                                                             owner UIC of 1st tape
                                                                                          : VECTOR [4,WORD],
: VECTOR [4,WORD],
: REF BBLOCK,
: REF BBLOCK,
: BBLOCK[VCB$C_LENGTH] ! prototype VCB
    INITIAL ( REP VCB$C_LENGTH OF BYTE (0)),
: BBLOCK[PROTO RVT_LEN] ! prototype RVT
    INITIAL ( REP PROTO RVT_LEN OF BYTE (0)),
: BBLOCK[PROTO MVL_LEN] ! prototype MVL
    INITIAL ( REP PROTO MVL_LEN OF BYTE (0)),
: BBLOCK[PROTO MVL_LEN] ! prototype MVL
    INITIAL ( REP PROTO MVL_LEN OF BYTE (0)),
                                                            PROTO_RVT
                                                             PROTO_MVL
                                                            VOLUME_PROT,
                                                                                                                                            Tape protection
owner UIC of tape
                                                             WRITE_RING
                                                                                           : BITVECTOR [ 1 ];
                                                                                                                                            are any write rings missing
                              0801
0802
0803
0804
0805
0806
0807
0808
0811
0811
0813
0814
0816
                                             BIND
                                                             STARID = UPLIT ('DECFILE11A'),
                                                                UPLIT was used instead of CH$TRANSTABLE here, the code produced is the same (ie the constant string generated).
                                                                  UPLIT was used because CH$TRANSTABLE generates a warning error because more then a single character at a time is specified in the %ASCII. ( BLISS KLUDGE )
                                                                 The table will upcase a..z and return space for any non ANSI
                                                                    a' characters.
                                                             TRANSLATION_TABLE = UPLIT BYTE (
                                                                            TASCII
                                                                                       '!" X&''()*+,-./0123456789:;<=>?
                                                                                            ABCDEFGHIJKLMNOPQRSTUVWXYZ
```



```
MOUTAP
V04-000
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                                    GLOBAL ROUTINE READ_VOLLABEL (VOLUME_LABEL) =
    FUNCTIONAL DESCRIPTION:
                                                This routine reads the first block on the magnetic tape and checks that it is an ANSI tape
                                       CALLING SEQUENCE:
READ_VOLLABEL (ARG1)
                                       INPUT PARAMETERS:
                                                ARG1 - address of volume label string descriptor
                                       IMPLICIT INPUTS:
                                                CHANNEL - channel number assigned to device being mounted
                                       OUTPUT PARAMETERS:
                                                NONE
                                       IMPLICIT OUTPUTS:
                                                VOL1
                                                                        - VOL1 magnetic tape label - owner of tape
                                                VOLUME_UIC
VOLUME_PROT
                                                                         - tape protection
                                       ROUTINE VALUE:
SS$_NORMAL
                                                SS$_NORMAL - if valid ANSI volume label
SS$_NOTLABELMT - not labeled ANSI magnetic tape
SS$_INCVOLLABEL - incorrect volume label
SS$_DEVOFFLINE - device not on system
SS$_MEDOFL - medium off_line
                                       SIDE EFFECTS:
                                       USER ERRORS:
                                                NONE
                                    BEGIN
                                    EXTERNAL
                                                CTLSGL_PHD
                                                                        : REF BBLOCK ADDRESSING_MODE(ABSOLUTE);
                                    MAP
                                                                                                   volume label ( from command line )
                                                VOLUME_LABEL
                                                                         : REF BBLOCK;
                                                                                                      string desc
                                    LOCAL
                                                                  Current record the tape drive is reading
Address of ucb
VECTOR [ VL1$S_VOLLBL, BYTE ],
VECTOR [ VL1$S_VOLLBL, BYTE ],
                                          CURRENT RECORD,
UCB : REF BBLOCK,
UPCASE INPUT :
UPCASE TAPE :
TAPE OWNER_STS,
STATUS,
```

G 14 16-Sep-1984 01:24:03 VAX-11 Bliss-32 V4.0-742 Page 8 14-Sep-1984 12:45:31 DISK\$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1 (2)

MOL

VMS_TAPE;

! Set if VMS created tape

BIND

SECONDS = UPLIT (-1

= UPLIT (-10000000,-1); ! one second in 100 nsec units

Enable handler to clear valid on all but current device

ENABLE ERROR_HANDLER;

The following is here for historical reasons only

Here we have inserted two extra QIO's (IOS_REWIND) which apparently are not needed but which in fact are here to take care of an anomaly that sometimes occurs when the MOUNT command appears in a command file immediately following a DISMOUNT/NOUNLOAD command.

Under certain circumstances the MOUNT fails with a SS\$_VOLINV status. The problem is due to a complicated interaction involving QIO dispatching logic, the MAGTAPE ACP, and the MOUNT command. What occurs is the following.

DISMOUNT, before finishing issues a \$QIOW with an I/O function code of IO\$ ACPCONTROL!IO\$M_DMOUNT. This request is forwarded to the ACP and DISMOUNT then has its image rundown.

The ACP then issues a \$QIOW with a function code of IO\$_REWIND!IO\$M_NOWAIT, while in parallel, MOUNT is starting up and it proceeds to set the UCB\$M_VALID bit in UCB\$W_STS (which in this case was still on due to the volume previously having been mounted) and then MOUNT issues its own \$QIOW with an IO\$_REWIND function code.

In some instances, the ACP's REWIND QIO does not get as far as REQCOM until after MOUNT's REWIND has been queued. If this occurs, INIT's queued REWIND is started up before the ACP actually regains control and the driver has no trouble since it finds the UCB\$M_VALID bit still on. Unfortunately, as soon as the ACP regains control, following the driver's WFIKPCH, the ACP clears the UCB\$M_VALID bit. The next QIO issued by MOUNT will fail due to the absence of the UCB\$M_VALID bit.

The solution (pronounced KLUDGE) herein implemented, simply inserts an extra couple of \$910W's with IO\$ REWIND function code, preceded by explicit settings of the UCB\$M_VALID bit, before the real logic of MOUNT begins. These \$910W's allow the above potential interaction to occur, and after they have finished, we again set the UCB\$M_VALID bit on in the normal way.

The above is no longer true; that is we have elimentated the race condition mentioned above by not doing issuing the rewind at dismount time but infact marking the drive available. The following IO's mark the volume valid then issue the rewind, which is neccesary because of the preMSCP drivers will not rewind on this function. The MSCP drivers will and the second IO here becomes an NOP.

```
H 14
16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
MOUTAP
V04-000
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                                                CHAN = .CHANNEL,
FUNC = 10$ PACKACK,
10SB = 10_STATUS[0]);
    STATUS = DO 10(
CHAR = .CHANNEL,
FUNC = IOS REWIND,
IOSB = IO_STATUS[O]);
                                    ! some things which need to be set up only the first time thru
                                    IF .DEVICE_INDEX EQL 0
                                    THEN
                                          BEGIN
                                          ! Assume that the user is correct on the command line about write ring
                                          ! status
                                          WRITE_RING [ 0 ] = .MOUNT_OPTIONS [ OPT_WRITE ];
                                          ! get the UIC of the current process
                                          $GETJPI ( ITMLST = UPLIT( WORD(4), WORD(JPI$_UIC), LONG(PROCESS_UIC,0,0)));
                                          ! determine user's privilege from process privilege mask
                                         PRIVILEGE_MASK = CTL$GL_PHD[PHD$Q_PRIVMSK];
                                          END:
                                      Set up the device characteristics. This can be done even if the drive is
                                      offline.
                                   SET_LHARACTER ();
                                      Set up the default volume UIC and volume protection. Default UIC is the current process. This is done in case this is a non-ANSI tape or more device then labels have been specified. Default protection is no world or
                                       group access to the tape.
                                    VOLUME_UIC = .PROCESS_UIC;
VOLUME_PROT = 0;
                                      If there are more devices then labels specified then exit here because we can not check a label if we do not know it. This does not matter if it is the first time thru because the label must be specified or /OVER=ID used (in which case we will return the label)
                                       (.DEVICE_INDEX NEQ 0)
AND (.DEVICE_INDEX GEQ .LABEL_COUNT)
AND NOT ( .MOUNT_OPTIONS [ OPT_FOREIGN ] OR .MOUNT_OPTIONS [ OPT_NOLABEL ] )
                                    THEN RETURN SSS_NORMAL;
                                       Position tape to BOT and check status
                                       wait 10 seconds before deciding that the device is offline
```

```
MOUTAP
VO4-000
                                                                                                                                                                                                             16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
                                                                                                                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742 Particular Particul
        FROM U ...

STATUS = DO 10(

CHAR = .CHANNEL,

FUNC = IOS PACKACK,

IOSB = IO STATUS[0])

CHAN = .CHAN

CHAN = .CHAN

CHAN = IOS F
                                                                             INCRU J FROM 0 TO 9 DO
                                                                                          BEGIN
                                                                                         STATUS = DO_10 (
                                                                                                                                                                               . CHANNEL
                                                                                                 FUNC = 10$ REWIND,

10SB = 10 STATUS);

STATUS THEN STATUS = .10 STATUS[0];

STATUS NEQ SS$ MEDOFL AND .STATUS NEQ SS$ VOLINY THEN EXITLOOP;

$SETIMR (REGIDT = 999, DAYTIM = SECONDS, EFN = TIMER_EFN)
                                                                                          THEN
                                                                                                       BEGIN
                                                                                                     SUATTR (EFN = TIMER EFN);
SCANTIM (REGIDT = 999);
SSETEF (EFN = TIMER_EFN);
                                                                                                       END:
                                                                                         END:
                                                                                  All errors other than device not in system or medium off line reported
                                                                                      to user
                                                                            IF NOT .STATUS THEN ERR_EXIT (.STATUS);
                                                   1018
                                                                                  Test to see if the write ring is really there, only if we think it should
                                                                                  be there.
                                                                            IF .WRITE_RING [ 0 ]
                                                                            THEN
                                                  1024
1025
1026
1027
1028
1029
1030
1031
1032
1033
                                                                                         BEGIN
                                                                                         ! allow us to get at the information nicely
                                                                                         BIND DEVICE_DEPENDENT = IO_STATUS [ 2 ] : BBLOCK;
                                                                                       STATUS = DO_10 (CHAN = .CHANNEL,

10SB = 10 STATUS,

FUNC = 10$ SENSEMODE);

IF .STATUS THEN STATUS = .TO STATUS[0];

IF NOT .STATUS THEN ERR_EXIT (.STATUS);
                                                                                         ! NOTE: assignment done only if we think a write ring should be there
                                                                                         WRITE_RING [ 0 ] = NOT (.DEVICE_DEPENDENT [ MT$V_HWL ]);
                                                    1040
1041
1042
1043
1044
1045
1046
1047
                                                                                         END:
                                                                                   Do not read the tape if /FORIEGN and /OVER=(ACC, EXP), VOLPRO and OPER
                                                                                   This allows the operator to initialize blank tapes.
                                                                                       ( run away tape condition with brand new tapes )
                                                                                   Please note that this really is a hack to allow operators to get around the
                                                                                   fact that some hardware can not deal with blank tapes. This should
                                                                                   not be the defacto for initializing tapes.
                                                                                             .PRIVILEGE_MASK [ PRV$V_VOLPRO ]
```

```
MOUTAP
VO4-000
                                                                                                                                                   VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                                       AND .PRIVILEGE MASK [ PRV$V OPER ]
AND ( .MOUNT OPTIONS [ OPT FOREIGN ] OR .MOUNT_OPTIONS [ OPT_NOLABEL ] )
AND .MOUNT_OPTIONS [ OPT_OVR_EXP ]
THEN RETURN $5$_NORMAL;
    1053
1053
1055
1055
1056
1057
1058
1063
1064
1066
1067
1068
1067
1073
1073
                                        ! Read first block on tape and check status
                                       STATUS = DO_10 (CHAN = .CHANNEL,
FUNC = IO$ READLBLK,
IOSB = IO_STATUS,
                                                                  P1 = VOL17
P2 = 80);
                                       IF .STATUS THEN STATUS = .10_STATUS[0];
                                        If first record is TM then not ANSI tape
If label is more than 80 characters ignore error
                                        IF (NOT .STATUS) AND (.STATUS NEQ SS$_DATAOVERUN)
                                       THEN
                                              BEGIN
RESET_DENSITY ();
RETURN SS$_NOTLABELMT;
                                        ! Now check that first block is VOL1 ANSI label
                                       IF .VOL1[VL1$L_VL1LID] NEQ 'VOL1'
THEN
                                              BEGIN
RESET_DENSITY ();
                                              RETURN SS$_NOTLABELMT:
                          ! determine owner and VMS protection of tape
                                        TAPE_OWNER_STS = TAPE_OWN_PROT (VOLUME_UIC, VOLUME_PROT, .PROCESS_UIC, VOL1);
                                           Get the ANSI version from the label and subtract the character 0 to make it a decimal value rather than ASCII. Use the channel to get the
                                           physical UCB.
                                       LABEL_VER = .VOL1[VL1$B LBLSTDVER] - '0';
UCB = KERNEL_CALL(GET_CRANNELUCB, .CHANNEL);
                                           Call the accessibility system service to check the accessibility char on the VOL1 label.
                                          First keep the record that the UCB is reading. The accessibility routine can not move the tape from under us! Thus we will compare this to the field after the call and if the tape was moved we punt the operation. Grant the user access to the volume according to the error code returned from the system service.
```

; R

```
MOUTAP
V04-000
                                                                                                                             VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                                        ! ANSI tape, but can't read HDR1
   $5$5789012345678901234565656666666666666666666666666668890
$3$67890123456789012345678901234567777777777778888888890
                                        IF NOT .STATUS AND (.STATUS NEQ SS$_DATAOVERUN) THEN RETURN SS$_NOTLABELMT;
                                          If the SYSCODE was VMS's and there is a VOL2 Label then process it. After processing the VOL2 label we must check the ACCESS field so that if the accessibility routine gave the user full access to the volume then the VMS protection must be set up so that the user has full
                                          access to the volume.
                                        IF .VMS_TAPE AND .ANSI_LABEL[VL2$L_VL2LID] EQL 'VOL2'
                                             BEGIN
                                                 PROCESS_VOL2_LABEL(VOLUME_UIC, VOLUME_PROT, .PROCESS_UIC, ANSI_LABEL);
                                                  IF NOT . FOCESS THEN VOLUME_PROT = 0;
                                        IF .ANSI_LABEL[HD1$L_HD1LID] EQL 'HDR1' THEN EXITLOOP;
                                    Must have VOLPRO privilege or UIC ownership to mount a ANSI tape /foreign
                                  IF ( .MOUNT_OPTIONS [ OPT_FOREIGN ] OR .MOUNT_OPTIONS [ OPT_NOLABEL ] )
                                  THEN
                                        IF (.PRIVILEGE_MASK [ PRV$V_VOLPRO ]) OR (.PROCESS_UIC EQL .VOLUME_UIC)
                                        THEN
                                             BEGIN
RESET_DENSITY ();
                                             RETURN SS$ NORMAL:
                                       ELSE RETURN SS$_NOPRIV;
                       1196
1197
                                       END:
                                    If the owner identifier field of the VOL1 label can not allow the user to
                                    access the tape with out forceing the user to specify /OVERRIDE=OWNER_ID and the accessibility routine specified to check VMS protection than
                                    punt the MOUNT.
                                       IF NOT .TAPE_OWNER_STS AND NOT .MOUNT_OPTIONS[OPT_OVR_VOLO] AND .ACCESS
                                             THEN ERR EXIT (SS$ VOLOERR);
                                  ! Now check if the labels match. First, test the length of the input string
                                  IF .VOLUME_LABEL [DSC$W_LENGTH] GTRU VL1$S_VOLLBL THEN ERR_EXIT (SS$_MTLBLLONG);
                                    Next translate the labels into uppercase and put in ' for any non-ANSI ''a' characters' found. Pad with space, in case the label from command is
                                      less than six characters long.
                                  CHSTRANSLATE (TRANSLATION_TABLE, .VOLUME_LABEL[DSC$W_LENGTH], .VOLUME_LABEL[DSC$A_POINTER], '', VL1$S_VOLUBL, UPCASE_INPUT); CHSTRANSLATE (TRANSLATION_TABLE, VL1$S_VOLUBL, VOL1[V[1$T_VOLUBL], '',
                                                                                 VL1$5 VOLLBL.
                                                                                                           UPCASE_TAPE):
                                  IF CHSNEQ (VL1$S_VOLLBL, UPCASE_INPUT, VL1$S_VOLLBL, UPCASE_TAPE)
```

```
MOUTAP
V04-000
                                                                                                                      VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER: [MOUNT.SRC]MOUTAP.B32;1
   691
692
693
694
                                THEN RETURN SS$_INCVOLLABEL;
                                RETURN SS$_NORMAL:
                                                                                      ! end of routine READ_VOLLABEL
                                                                                                    .TITLE
                                                                                                              MOUTAP
\V04-000\
                                                                                                              SPLITS, NOWRT, NOEXE, 2
                                                                                 00000
0000C
0001B
0002A
0002C
0003B
                                                                                        P.AAA:
P.AAB:
                                                                                                    .ASCII
                                                                                                               \DECFILE11A\<0><0>
                                                                                                    .ASCII \ !" X&'()*+,-./0123456789:;<=>?\
                                                                                                    .ASCII \ ABCDEFGHIJKLMNOPQRSTUVWXYZ
                                                                                                    .ASCII \ ABCDEFGHIJKLMNOPQRSTUVWXYZ
                                                                 20
                                                                                                    .ASCII \
                                                                                                                                                           1
                                                                20
                                                                                                    .ASCII \
                                                                20
                                                                                                    .ASCII \
                                                                                                    .ASCII
                                                                                0010A
0010C P.AAC:
00114 P.AAD:
00116
00118
                                                                                                    . LONG
                                                                                                              -10000000, -1
                                                                                                    . WORD
                                                                                                    . WORD
                                                                                                    ADDRESS PROCESS_UIC
                                                      00000000
                                                                                                    .PSECT
                                                                                                              SOWNS, NOEXE, 2
                                                                                 00000 ACCESS: .BLKB
00004 ANSI_LABEL:
                                                                                00054 BLOCKSZ: BLKB
00056 BLKB
00058 FIRST_V_UIC:
                                                                                 0005C FIRST_V_PROT:
                                                                                 00060 10_STATUS:
                                                                                 00068 LABEL_VER:
                                                                                                    .BLKB
```

```
MOUTAP
VO4-000
```

```
N 14
16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
                                                                                                   VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                                       0006C PRIVILEGE MASK:
                                       00070 PROCESS_UIC:
                                                                       BLKB
                              00# 00074 PROTO_VCB:
                                                                                      0[236]
                                                                       BYTE
                              00# 00160 PROTO RVT:
                                                                                      0[132]
                                                                       BYTE
                              00# 001E4 PROTO MVL:
                                                                       BYTE
                                                                                      0[164]
                                       00288 VOLUME_PROT:
                                       0028C VOLUME_UIC:
                                                                       BLKB
                                       00290 WRITE_RING:
                                                                     .BLKB
                                                    STARID=
                                                                                               P.AAA
                                                    TRANSLATION_TABLE=
                                                                                               P.AAB
                                                                                    P.AAC

T= IO_STATUS+4

ALLOC_EOGNAME, ALLOCATE MEM
CHECK_PROT, ENTER LOGNAME
GET_CRANNELUCB, GET_RECORD
LIBSCYT_OTB, LOCK_IODB
PROCESS_VOL2_LABEE
SEND_ERRLOG, START_ACP
TAPE_OWN PROT, TRAN LOGNAME
UNLOCK_IODB, BLOCKSIZE
CHANNEE, CLEANUP_FLAGS
CLEANUP_ALLOC, CTLSGL_VOLUMES
DEVICE_CHAR, DEVICE_INDEX
MOUNT_OPTIONS, LABEE_COUNT
RECORDSZ_VOL1, CTLSGL_PHD
COMMON_IO, SYSSGETJPI
SYSSSETIME, SYSSWAITER
SYSSCANTIM, SYSSWAITER
SYSSCANTIM, SYSSWAITER
SYSSCANTIM, SYSSWAITER
                                                                                               P.AAC
                                                    SECONDS=
                                                    DEVICE DEPENDENT=
                                                                     .EXTRN
                                                                      .EXTRN
                                                                      .EXTRN
                                                                      .EXTRN
                                                                      .EXTRN
                                                                      EXTRN
                                                                      .EXTRN
                                                                      .EXTRN
                                                                      .EXTRN
                                                                      .EXTRN
                                                                      .EXTRN
                                                                      .EXTRN
                                                                      .EXTRN
                                                                     .EXTRN
                                                                     .EXTRN
                                                                      -EXTRN
                                                                                      $CODE$, NOWRT, 2
                                                                     .PSECT
                                                                                     READ VOLLABEL. Save R2,R3,R4,R5,R6,R7,R8,-
R9,RT0,R11
VOL1, R11
CHANNEL, R10
MOUNT OPTIONS, R9
COMMON IO, R8
LIB$STOP, R7
IO STATUS, R6
#16, SP
38$, (FP)
-(SP)
-(SP)
                            OFFC 00000
                                                                                                                                                                                         0822
                                                                     .ENTRY
00006
00006
00000006
00000006
                                      00002
00007
00000
00011
00018
0001F
00027
0002C
00030
00032
                                                                     MOVAB
                                                                     MOVAB
                                9E9E9E2E70
                                                                     MOVAB
                                                                     MOVAB
                                                                     MOVAB
                                                                     MOVAB
                                                                     SUBL 2
                                                                                                                                                                                         0863
0938
                                                                     MOVAL
         0353
                                                                     CLRQ
                                7C
7C
7C
DD
                                                                     CLRQ
                                                                     CLRQ
                                                                                      -(SP)
                                                                     CLRQ
                                                                                      -(SP)
                                                                                      R6
                                                                     PUSHL
                                                                     PUSHL
```

MOUTAP V04-000							4.0		15 -Sep-1984 01:24 -Sep-1984 12:45		e 16 (2)
					68		QÇ	DD 00038 DD 0003A FB 0003C DO 0003F 7C 00042 7C 00044 7C 00046 7C 00048	PUSHL PUSHL CALLS MOVL CLRQ CLRQ CLRQ PUSHL PUSHL PUSHL PUSHL SALLS MOVL TSTL BNEQ EXTZV INSV CLRQ CLRL PUSHAB	CHANNEL #26 #12, COMMON_IO RO, STATUS -(\$P) -(\$P) -(\$P) -(\$P) R6	0944
					68	00006	24 6A 1A 0C 50	0D 0004A 0D 0004C 0D 0004E 0D 00050 FB 00052	PUSHL PUSHL PUSHL PUSHL CALLS MOVL TSTL	R6 #36 CHANNEL #26 #12. COMMON_IO RO. STATUS DEVICE_INDEX	0949
0230	50 C6	01	A9 01		01	0000	201 50 7E 7F	12 0005C EF 0005E FO 00064 7C 0006B 04 0006D 9F 0006F	BNEQ EXTZV INSV CLRQ CLRL PUSHAB CLRQ	N1. W1. MOUNT OPTIONS+1, RO RO, WO, W1, WRITE_RING -(SP) -(SP) P.AAD -(SP)	0956
				000000006 0C 0000v 022C	00 A6 CF C6	00000000G 10 0228 0000G	07 9F 00 A6 C6	04 00075 FB 00077 00 0007E FB 00086 00 0008B 04 00091	CLRQ CLRL CALLS MOVL 1\$: CALLS MOVL CLRL TSTL	-(SP) #7. SYS\$GETJPI a#CTL\$GL_PHD, PRIVILEGE_MASK #0, SET_CHARACTER PROCESS_UIC, VOLUME_UIC VOLUME_PROT DEVICE_INDEX 2\$	0964 0971 0978 0979 0986
				0000G	CF	00006	CF I	13 00099 01 00098	BEQL	DEVICE_INDEX. [ABEL_COUNT	0987
			08 03	01	A9			0 000A4 0 000A9	BBS BBS	2\$ #3, MOUNT_OPTIONS+1, 2\$ #4, MOUNT_OPTIONS+1, 2\$	0988
						0	7E 7E 7E 56	7C 000B5 7C 000B7 7C 000B9	BEQL CMPL BLSS BBS BBS BRW CLRQ CLRQ CLRQ CLRQ CLRQ CLRQ CLRQ CLRQ	-(SP) -(SP) -(SP)	0994 0999
					68		7E 7E 7E	0D 000BD 0D 000BF 0D 000C1 FB 000C3 00 000C6 7C 000C9 7C 000CB 7C 000CB	PUSHL PUSHL CALLS MOVL CLRQ CLRQ CLRQ CLRQ	R6 #8 CHANNEL #26 #12, COMMON_IO RO, STATUS -(SP) -(SP) -(SP) -(SP)	1002
					68 54 03			7C 000CB 7C 000CD 7C 000CF 0D 000D1 0D 000D3 0D 000D5 0D 000D7 FB 000D9 00 000DC	PUSHL PUSHL PUSHL CALLS MOVL BLBC	R6 #36 CHANNEL #26 #12, COMMON_IO RO, STATUS STATUS, 48	1003

MOL

UTAP 4-000			C 15 16-Sep-1984 01:20 14-Sep-1984 12:4	4:03 VAX-11 Bliss-32 V4.0-742 5:31 DISKSVMSMASTER:[MOUNT.SRC]MOUTAP	.832;1 (2)
0	00001A4 8F	66 54 09	3C 000E2 D1 000E5 48: CMPL	10 STATUS, STATUS STATUS, #420	1004
	0000254 8F	09 54	DI OOOEE CMPL	STATUS, #596	
	7E	03E7 8F	3C 000F7 55: MOVZWL	7 \$ #999, -(SP)	1005
		0000° CF	04 000FC 9F 000FE PUSHAB DD 00102 FB 00104 E9 0010B DD 0010E FB 00110 CALLS CLRL GLRL GLRL GLRL DD 00125 FB 00127 D6 0012E 6\$: INCL	-(SP) SECONDS #25	
0	00000000 00 20	19 04	DD 00102 PUSHL CALLS	#4, SYS\$SETIMR R0, 6\$	
		50 19	E9 0010B BLBC PUSHL	#4. SYS\$SETIMR R0. 6\$ #25 #1. SYS\$WAITFR -(\$P) #999(\$P) #2. SYS\$CANTIM #25 #1. SYS\$SETEF	1008
0	00000006 00	76	04 00117 CLRL	#1 SYS\$WAITFR -(SP)	1009
0	00000000 7E	03E7 8F	FB 0011E CALLS PUSH	M2, SYSSCANTIM	
0	0000000G 00	19 01	DD 00125 FB 00127 CALLS	#1, SYS\$SETEF	1010
	09	52	D6 0012E 6\$: INCL D1 00130 CMPL	1 #0	0994
	05	FF7B 54	D1 00130 1A 00133 31 00135 E8 00138 7\$: BLBS DD 0013B FB 0013D E9 00140 8\$: BLBC 7C 00145 7C 00147 CLRQ	7\$ 3\$ CTATHS 88	1017
		54	DD 0013B PUSHL CALLS	STATUS M1 LIBSCTOR	. 1017
	67 34	0230 Ç6	E9 00140 8\$: BLBC CLRQ	STATUS, 8\$ STATUS #1, LIB\$STOP URITE_RING, 11\$ -(SP)	1022 1032
		0230 C6 7E 7E 7E	7C 00147 CLRQ CLRQ	-(SP) -(SP)	, 1032
		7F.	7C 0014B CLRQ DD 0014D PUSHL	-(SP)	
		27 6A	DD 0014D PUSHL DD 0014F PUSHL DD 00151 PUSHL	R6 #39 CHANNEL	
	68	1 A 0 C	DD 00151 PUSHL PUSHL FB 00155 CALLS	#26 #12, COMMON_IO	•
	68 54 06 54 05	00 50 54 66 54 54	DD 00151 DD 00153 FB 00155 CALLS D0 00158 E9 0015B BLBC 3C 0015E E8 00161 BLBS	CHANNEL #26 #12. COMMON_IO RO. STATUS STATUS. 9\$ IO STATUS, STATUS STATUS. 10\$ STATUS. #1, LIB\$STOP #3. #1, DEVICE_DEPENDENT+2, RO RO. RO RO. #0. #1, WRITE RING #21. aPRIVILEGE_MASK, 13\$ #18. aPRIVILEGE_MASK, 13\$ #18. aPRIVILEGE_MASK, 13\$ #4. MOUNT_OPTIONS+1, 12\$ #4. MOUNT_OPTIONS+2, 13\$ #6. MOUNT_OPTIONS+2, 13\$	1033
	54 05	66 54	3C 0015E MOVZWL BLBS	IO STATUS, STATUS STATUS, 108	1034
	67	54 01	E8 00161 DD 00164 98: PUSHL FB 00166 CALLS	STATUS #1, LIB\$STOP	
50 06 A6	01 50	03 50	EF 00169 108: EXTZV MCOML	#3, #1, DEVICE_DEPENDENT+2, RO RO, RO	1038
0230 C6 01 1C	67 01 50 00 00 00 00 01 86 01 A9 01 A9 04 A9	50 15	F0 00172 E1 00179 118: BBC	RO WO WI WRITE RING W21, aprivilege MASK, 13\$	1049
05	01 A9	03	E0 00183 BBS	#3, MOUNT_OPTIONS+1, 12\$	1049 1050 1051
05 00 08 03	0C B6 0C B6 01 A9 01 A9 04 A9 02 A9	03 04 06 04 01E0 7E	E1 00180 12\$: BBC	#6, MOUNT OPTIONS+1, 138	1052 1053
03	UZ AY	0150	31 00197 BRW	37\$	2
	70		7C 0014B DD 0014D DD 0014F DD 00151 DD 00153 FB 00155 D0 00158 E9 0015B 3C 0015E E8 00161 DD 00164 FB 00166 EF 00169 D2 0016F F0 00172 E1 00179 E1 00179 E1 00178 E1 00188 E1 00188 E1 00188 E1 00188 E1 00192 31 00197 7C 0019A TS: BBC BBC BBC BBC BBC BBC BBC BBC BBC BB	#3. MOUNT_OPTIONS+1. 12\$ #4. MOUNT_OPTIONS+1. 13\$ #6. MOUNT_OPTIONS+4. 13\$ #4. MOUNT_OPTIONS+2. 13\$ 37\$ -(SP) -(SP) #80(SP) R11	1062
	7E	50 8F 5B 7E	7C 0019C CLRQ 9A 0019E MOVZBL DD 001A2 PUSHL 7C 001A4 CLRQ DD 001A6 PUSHL	R11 -(SP) R6	

MON

			D 15 16-Sep- 14-Sep-	1984 01:24 1984 12:45	:03 VAX-11 BLiss-32 V4.0-742 :31 DISK\$VMSMASTER:[MOUNT.SRC]MOUTAF	Page 18 P.832;1 (2)
00000838	68 54 06 54 09 8F	10 05 66 66 66 66 66 66 66 66 66 66 66 66 66	DD 001A8 DD 001AA DD 001AC FB 001AC FB 001B7 E8 001BA D1 001C6 D1	PUSHL PUSHL CALLS MOVL BLBC MGVZWL BLBS CMPL	#33 CHANNEL #26 #12, COMMON_IO RO, STATUS STATUS, 14\$ IO STATUS, STATUS STATUS, 15\$ STATUS, #2104	1063 1068
314C4F56	8F	66	D1 00166 158:	CMPL	16\$ VOL1, #827084630 17\$	1077
0000V	CF	0102 55 10 A6	FB 001CF 16\$: 31 001D4 DD 001D7 17\$: DD 001D9	BLBS CMPL BNEQ CMPL BEQL CALLS BRW PUSHL PUSHL PUSHAB	#0 RESET_DENSITY 28\$ R11	1080 1081 1086
0000G	CF 55	10 A6 0228 C6 022C C6 04 4F A6	DD 001D7 17\$: DD 001D9 9F 001DC 9F 001E0 FB 001E4 DO 001E9 9A 001EC	rusnab	PROCESS UIC VOLUME PROT VOLUME UIC #4, TAPE OWN PROT R0, TAPE OWNER STS	1092
08 08	A6 A6	3(6/ 01 5(C2 001F1 DD 001F5 DD 001F7 DD 001F9	SUBL 2 PUSHL PUSHL PUSHL	RO. TAPE OWNER STS VOL1+79, LABEL VER #48, LABEL VER CHANNEL #1 SP	1093
00000000G	9F 52	0000G CF 04 50 52 01	9F 001FB FB 001FF D0 00206 DD 00209 DD 0020B	CALLS MOVL MOVZBL SUBL2 PUSHL PUSHL PUSHL PUSHAB CALLS MOVL PUSHL PUSHL	GET_CHANNELUCB M4, amsys\$cmkrnL R0, ucb ucb M1	1103
000000006	9F 53	0000G CF 04 50 76	DD 0020B DD 0020D 9F 0020F FB 00213 DO 0021A 7C 0021D	PUSHAB	SP GET_RECORD #4, a#SYS\$CMKRNL RO, CURRENT_RECORD -(SP)	1109
000000000 A0	00 A6	08 A6 10 A6 56 06	7C 0021D D4 0021F DD 00221 DD 00224 DD 00227 FB 00229 DO 00230 DD 00234 DD 00236	PUSHL PUSHL PUSHL CALLS MOVL	-(SP) LABEL_VER PROCESS_UIC R11 #6. SYS\$MTACCESS R0. ACCESS	
000000006	9F 54 54	08 A6 10 A6	DD 00234 DD 00236 DD 00238 9F 0023A FB 0023E D0 00245 D1 00248 3C 0024B 3C 0024D FB 00252 D0 00255 D1 00259	MOVL CLRQ CLRL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL MOVL CMPL BEQL MOVL CMPL BEQL CMPL BEQL CMPL BEQL CMPL BEQL CMPL BEQL CMPL BEQL CMPL BEQL CMPL BEQL CMPL BEQL CMPL BEQL CMPL BEQL CMPL BEQL CMPL CMPL BEQL CMPL CMPL CMPL CMPL CMPL CMPL CMPL CMP	RO, ACCESS UCB IT SP GET_RECORD #4, amsys*cmkrnl RO, STATUS CURRENT_RECORD, STATUS	1110
000022A4	7E 67 50 8F	0224 8F	13 0024B 3C 0024D FB 00252 D0 00255 18\$: 0 01 00259 13 00260 D1 00262	BEQL MOVŽUL CALLS MOVL CMPI	18\$ #548, -(SP) #1, LIB\$STOP ACCESS, RO RO, #8868	1112 1122
000022AC	8F	69 50 50 50	13 00260 D1 00262 12 00269 DD 0026B 19\$:	BEQL CMPL BNEQ PUSHL	19\$ R0 #8876 20\$	1123 1124

MOL

							E 15 16-Sep- 14-Sep-	1984 01:24 1984 12:45		Page 19 TAP.832;1 (2)
		0000009C	67 8F	AO	01	FB 00	26D 270 20\$:	CALLS	#1. LIB\$STOP ACCESS, #156 23\$	1126
	06	04	A9	40	06	EO 00	27A	882	WO. MUUNI UPIIUNS+4, 213	1129 1130
	04	0.0	67 B6	AO	01	FB 00	27F 282 285 218:	PUSHL	ACCESS #1 LIB\$STOP #21, aprivilege_mask, 22\$	2
	06	ОС		AO	A6	DD 00	285 21 \$:	BBS PUSHL	ACCESS MASK, 228	1131 1132
		AO	67 A6 04	0228	01 A6	PB 000 120	28A 28D 290 22\$: 294 23\$:	CALLS MOVL BLBS CLRL CMPC3	#21, aprivilege_mask, 22\$ ACCESS #1, LIB\$STOP #1, ACCESS ACCESS, 24\$ VOLUME_PROT #10, STARID, VOL1+24	1133 1140
18	AB	00001	CF	0220	QA A	29 00	296 248:	CMPC3	#10, STARID, VOL1+24	1146
			52		01	DO 000	ŽÁŠ	BNEQ	25\$ #1 VMS_TAPE 26\$	1147
					52 7E 7E	7C 00 7C 00 9A 00 9F 00	294 238: 298 29C 248: 2A3 2A5 2A6 2AA 258: 2AC 268: 2BO	BRB CLRL CLRQ CLRQ	VMS TAPE -(SP) -(SP) #80, -(SP)	1148 1161
			7E	50 A4	8F A6 7E	9A 00 9F 00 7C 00	280 284 287 289	MOVZBL PUSHAB CLRQ	ANSI_LABEL -(SP)	
		00000838	68 54 06 54 0F 8F		0A10A01A00AC00005778A7526105565508	DD 00 DD 00 FB 00 DO 00 F9 00	288 28D 28F 2C1 2C4 2C7 2CA 2CD 2DO 278:	PUSHL PUSHL PUSHL CALLS MOVL BLBC MOVZWL BLBS CMPL BEQL	R6 #33 CHANNEL #26 #12, COMMON_IO RO, STATUS STATUS, 27\$ IO STATUS, STATUS STATUS, 29\$ STATUS, #2104 29\$ #476, RO	1162 1166
			50	OIDC		3C 00	2D9 28\$:	MOVZWL RET BLBC		
		324C4F56	25 8F	A4	52 A6 1B	04 00 E9 00 D1 00 12 00	2DF 298: 2E2 2EA	CMDI	VMS_TAPE, 30\$ ANST_LABEL, #843861846 30\$	1174
		00005	A.P.	0228 022C	526 1866666666666 1867 1867 1867 1867 1867	71 00	204 208: 20F 298: 2E2 2EA 2EC 2EF 2F2	PUSHAB PUSHAB PUSHAB PUSHAB CALLS BLBS CLRL CMPL BNEQ BBS	ANSI LABEL PROCESS UIC VOLUME PROT VOLUME UIC #4. PROCESS VOL2 LABEL ACCESS, 30\$ VOLUME PROT ANSI LABEL, #827475016	1177
		0000G	CF 04	AQ AQ	A6	E8 00	2FE	BLBS	ACCESS, 30\$	1179
		31524448	8F	0228 A4	A6	01 00	303 307 30 \$:	CMPL	ANSI_LABEL, #827475016	1181
	05	01	A9		03	EO 00	311 311	BBS	#3, MOUNT_OPTIONS+1, 318	1186
	05 18 08	01 00 0220	A9 B6 C6	10	15	FB 00 D4 00 D1 00 E0 00 E1 00 E1 00 FB 00	2f6 2fA 2ff 303 307 305: 311 316 318 318: 320 326 328:	BBC BBS CMPL BNEQ	26\$ #3. MOUNT_OPTIONS+1, 31\$ #4. MOUNT_OPTIONS+1, 34\$ #21. aprivilege mask, 32\$ PROCESS_UIC, VOCUME_UIC 33\$	1189
		0000v	CF		00	FB 00	328 328:	CALLS	RESET_DENSITY	1192 1195
			50		24	00 00	320 32F 338:	MOVL RET	#36, RO	1173
			11		55	E8 00	332 333 348:	BLBS	TAPE_OWNER_STS, 35\$	1204

MOL VO4

MOUTAP V04-000							18	15 -Sep-	984 01:24 984 12:45	:03 VAX-11 Bliss-32 V4.0-742 Pag :31 DISK\$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1	e (2)
		OC	07	A9 08 7E 67 52 06	226C 04	04 E0 A6 E9 8F 3C 01 FB AC D0 62 B1 08 1B	00336 00338 0033F 00344 00347 0034B	358:	BBS BLBC MOVZWL CALLS MOVL CMPW BLEQU MOVZWL CALLS MOVTC	#4. MOUNT OPTIONS+7, 35\$ ACCESS, 35\$ #8812, -(SP) #1. LIBSSTOP VOLUME LABEL, R2 (R2), #6	1205 1209
0000°	CF CF	20	04 08 04	7E 67 B2 AF. AB 6E AE	0304	8F 3C 01 FB 62 2E 06 06 2E	00350 00355 00358 00360 00363 00368	36\$:	MOVTC	#772, -(SP) #1, LIB\$STOP (R2), 34(R2), #32, TRANSLATION_TABLE, #6, - UPCASE INPUT #6, VO[1+4, #32, TRANSLATION_TABLE, #6, - UPCASE TAPE #6, UPCASE_INPUT, UPCASE_TAPE 378 #268, R0	1215 1217
		6E	08	50 50	0100	06 29 06 13 8F 3C 04 01 00	0036D 00372 00374 00379 0037A 0037D	378:	CMPC3 BEQL MOVZWL RET MOVL RET	#6, UPCASE_INPUT, UPCASE_TAPE 378 #268, R0 #1, R0	1220 1221 1223 1224 0863
			0000v	7E CF	04	0000 7E D4 5E DD AC 7D 03 FB 04	0037E 00380 00382 00384 00388 0038D	38\$:	WORD CLRL PUSHL MOVQ CALLS RET	Save nothing -(SP) SP 4(AP), -(SP) #3, ERROR_HANDLER	0863

MOL VO4

; Routine Size: 910 bytes, Routine Base: \$CODE\$ + 0000

```
6 15
16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
MOUTAP
VO4-000
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER: [MOUNT.SRC]MOUTAP.B32;1
    ROUTINE SET_CHARACTER : NOVALUE =
                                       FUNCTIONAL DESCRIPTION:
                                                This routine sets the tape drive characteristics.
                                       CALLING SEQUENCE:
SET_CHARACTER ();
                                       INPUT PARAMETERS: NONE
                                       IMPLICIT INPUTS:
                                                                        - The current device characteristics
- The mount option specified by the user
- value of "/BLOCKSIZE"
- value of "/RECORDSIZE"
- the I/O channel of the tape drive
                                                DEVICE CHAR
MOUNT OPTIONS
BLOCKSIZE
                                                RECORDSIZE
                                                CHANNEL
                                       OUTPUT PARAMETERS:
                                                NONE
                                       IMPLICIT OUTPUTS:
                                                                         - set to the return status of the QIO
                                       ROUTINE VALUE:
                                       SIDE EFFECTS:
                                                NONE
                                       USER ERRORS:
                                                NONE
                                    BEGIN
                                    LITERAL
                                                ODD_PARITY
                                                                        = 0:
                                    LOCAL
                                                CHARACTERISTIC : VECTOR [4, WORD], STATUS;
                                                                                                             ! characteristics to set
                                    BIND
                                                 ! Set up offsets into the characteristics buffer
                                                                        = CHARACTERISTIC[2] : BBLOCK,
= CHARACTERISTIC[2] : BBLOCK,
= CHARACTERISTIC[1] : WORD,
= CHARACTERISTIC[2] : BBLOCK;
                                                 FORMAT
                                                 PARITY
                                                BUFFER SIZE
DENSITY
                                       Initialize characteristics
```

MOL VO

```
H 15
16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
MOUTAP
VO4-000
                                                                                                                                               VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
    CHARACTERISTIC[0]
CHARACTERISTIC[1]
CHARACTERISTIC[2]
CHARACTERISTIC[3]
                                                                       .(DEVICE_CHAR + 4):
.(DEVICE_CHAR + 6):
.(DEVICE_CHAR + 8):
.(DEVICE_CHAR + 10);
                                                                    = = =
                                       ! Now set density
                                       IF .MOUNT_OPTIONSCOPT_DENSITY] THEN
BEGIN
IF .MOUNT_OPTIONSCOPT_DENS_800]
THEN DENSITY[MT$V_DENSITY] = MT$K_NRZI_800
                                                       .MOUNT OPTIONSCOPT DENS 1600]
THEN DENSITY[MT$V DENSITY] = MT$K PE 1600
ELSE DENSITY[MT$V]DENSITY] = MT$K_GCR_6250;
                                             END
                                              ! use the default 1600 BPI
                                             DENSITY[MT$V_DENSITY] = MT$K_PE_1600;
                                       ! Parity set to odd, we only support 9-tracks and 9-tracks are always odd
                                      PARITY [ MT$V_PARITY ] = ODD_PARITY;
                                       ! Reset Tape format to FILES-11 ( only supported format )
                                       FORMAT [ MT$V_FORMAT ] = MT$K_NORMAL11;
                                          record and block sizes only for mount ( not init )
                                       ! Determine block size to set
                                       IF ( .MOUNT_OPTIONS[OPT_FOREIGN] OR .MOUNT_OPTIONS[OPT_NOLABEL] )
   THEN BLOCKSZ = 512
   ELSE BLOCKSZ = 2048;
                                       ! Check that blocksize for mounted labeled tape is not less than 18
                                      IF .MOUNT_OPTIONS[OPT_BLOCKSIZE] THEN
BEGIN
IF NOT .MOUNT_OPTIONS[OPT_FORM
                                           IF NOT .MOUNT OPTIONS[OPT_FOREIGN]
AND NOT .MOUNT OPTIONS[OPT_NOLABEL]
AND .BLOCKSIZE LSS 18
THEN ERR_EXIT (MOUNS_ILLANSIBS);
BLOCKSZ = .BLOCKSIZE;
END;
                                       BUFFER_SIZE = .BLOCKSZ;
```

```
MOU
VO4
```

```
MOUTAP
V04-000
                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER: [MOUNT.SRC]MOUTAP.B32;1
                                            ! Check legal record size
                                            IF .RECORDSZ GTRU .BLOCKSZ THEN ERR_EXIT (MOUNS_RECGTRBL);
                                             ! write the characteristics to the tape drive
                                           ! end of Routine SET_CHARACTER
                                                                                                      001C 00000 SET_CHARACTER:
                                                                                                                                                        Save R2,R3,R4
LIB$STOP, R4
BLOCKSZ, R3
MOUNT OPTIONS, R2
DEVICE CHAR+4, CHARACTERISTIC
MOUNT OPTIONS, 28
#1, MOUNT OPTIONS, 18
#3, #0, #5, DENSITY+1
                                                                                                                                                                                                                                             1225
                                                                                                                                          . WORD
                                                                             000000006
00006
00006
                                                                                                  0CCC6001000000000808A00C080
                                                                                                               00002
000018
000018
000018
000027
000027
000034
000034
000049
000049
000065
000066
000067
000078
000088
000099
00099
                                                                                                         9997EEF1EF1F8FEEB1BEEED1DFB00DEDBCC4F
                                                                                                                                          MOVAB
                                                                        54
53
52
7E
9
62
00
                                                                                                                                          MOVAB
                                                                                                                                          BAVOM
                                                                                                                                                                                                                                              1284
1291
1293
1294
                                                                                                                                          PVOM
                                                                                                                                          BLBC
                                              08
                                                                                                                                          BBC
           05
                    AE
                                                                                                                                          INSV
                                                                                                                                          BRB
                                                                                                                                                                                                                                              1296
1298
1291
1304
1310
                                                                        SA
00
                                              08
05
                                                                                                                                                               MOUNT OPTIONS+5, 28 #0, #5, DENSITY+1
                                                               05
                                                                                                                                          BBS
           05
                    AE
                                                                                                                                          INSV
                                                                                                                                         BRB
                                              05
           05
                                                                        00 AE 04 A2 A2 63
                                                                                                                                          INSV
                                                                                                                                                                      #5, DENSITY+1
                                                                                                                                                               PARITY
                                                                                                                                         BICBS
                                                               04
                                                                                                                                                       #12, #4, #4, FORMAT
#3, MOUNT OPTIONS+1, 48
#4, MOUNT OPTIONS+1, 58
#512, BLOCKSZ
                    AE
                                                                                                                                          INSV
                                                                                                                                                                                                                                              1314
1322
                                                               01
                                                                                                                                         BBS
                                                                                                                                         BBC
                                                                                     0200
                                                                                                                                                                                                                                             1323
                                                                                                                                          MOVU
                                                                                                                                         BRB
                                                                                                                                                        #2048, BLOCKSZ
MOUNT OPTIONS+2, 8$
#3, MOUNT OPTIONS+1, 7$
#4, MOUNT OPTIONS+1, 7$
BLOCKSIZE, #18
                                                                        63
1F
A2
A2
12
                                                                                     0800
                                                                                                                                         MOVW
                                                                                                                                         BLBC
                                              15
                                                               01
                                                                                                                                         BBS
BBS
                                                                                     0000G
                                                                                                                                         CMPL
BGEQ
                                                                                                                                                        #7504092
#1, LIB$STOP
BLOCKSIZE, BLOCKSZ
BLOCKSZ, BUFFER SIZE
#0, #16, BLOCKSZ, RECORDSZ
                                                                              007280DC
                                                                                                                                         PUSHL
CALLS
                                                                                                                                                                                                                                             1333
                                                                        64
63
AE
10
                                                                                     0000G
                                                                                                                                          MOVW
                                                                                                                                         MOVW
CMPZV
                                                               02
       0000G CF
                                              63
                                                                                                                                          BGEQU
                                                                              0072813C
                                                                                                                                                        #7504188
                                                                                                                                          PUSHL
                                                                                                                                         CALLS
CLRQ
CLRQ
CLRL
PUSHAB
                                                                                                                                                        #1 LIBSSTOP
                                                                                                                                                                                                                                             1348
                                                                                                                                                        -(SP)
                                                                                                                                                        -(SP)
```

CHARACTERISTIC

MOUTAP V04-000				J 15 16-Sep-1984 01:24:03 VAX-11 BLiss-32 V4.0-742 P 14-Sep-1984 12:45:31 DISKSVMSMASTER:[MOUNT.SRC]MOUTAP.B32;						
	00000000G 0000G	00 07 50 0E CF	0C 0000G 0C 0.000G	7435FAC0530F50050	7C9FDDDDDBB9CBDBB9CBDBB9CBBB9CBBB9CBBB9CB	0009E 000A1 000A3 000A7 000A9 000B3 000B3 000B7 000BA 10\$3 000C1 000C3 000C5	CLRQ PUSHAB PUSHL PUSHL CALLS BLBC MOVZWL BLBS CMPL BGEQ PUSHL CALLS RET	-(SP) IO STATUS #35 CHANNEL #26 #12, COMMON_IO STATUS, 10\$ IO STATUS, 10\$ IO STATUS, 11\$ DEVICE_INDEX, LABEL_COUNT 11\$ STATUS #1, LIB\$STOP	1349	

; Routine Size: 201 bytes, Routine Base: \$CODE\$ + 038E

```
MOUTAP
V04-000
                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                                ROUTINE RESET_DENSITY : NOVALUE =
   FUNCTIONAL DESCRIPTION:
                                          This routine resets the density of the tape drive. It is called if this a foreign mount.
                                  CALLING SEQUENCE:
RESET_DENSITY ();
                                   INPUT PARAMETERS:
                                          NONE
                                  IMPLICIT INPUTS:
                                          CHANNEL
                                                                - the I/O channel of the tape drive
                                  OUTPUT PARAMETERS:
                                          NONE
                                  IMPLICIT OUTPUTS: IO_STATUS
                                                                - set to the return status of the QIO
                                  ROUTINE VALUE:
                                  SIDE EFFECTS:
                                          NONE
                                  USER ERRORS:
                                          NONE
                               BEGIN
                               LOCAL
                                                                                               ! characteristics to set
                                          CHARACTERISTIC : VECTOR [4, WORD],
                                          STATUS:
                               BIND
                                          ! Set up offsets into the characteristics buffer
                                          BUFFER SIZE
DENSITY
                                                               = CHARACTERISTIC[1] : WORD,
= CHARACTERISTIC[2] : BBLOCK;
                                ! must be at beginning of tape to set characteristics
                               STATUS = DO_10 (CHAN = .CHANNEL,

IOSB = IO STATUS,

FUNC = IO$ REWIND);

IF .STATUS THEN STATUS = .TO STATUS[O];

IF NOT .STATUS THEN ERR_EXIT (.STATUS);
                                  read the characteristics of the tape drive
```

: R

; 1

```
MOUTAP
VO4-000
                                                                                                                                                             VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
     STATUS = DO_IO (CHAN = .CHANNEL,
IOSB = CHARACTERISTIC,
FUNC = IOS_SENSEMODE);
IF .STATUS THEN STATUS = .CHARACTERISTICEOJ;
IF NOT .STATUS THEN ERR_EXIT (.STATUS);
                                              Set up the buffer to hold the new characteristics. Get the device independent stuff from the 2nd long word of IO_STATUS, use the default buffersize and zero the notused field
                                          CHARACTERISTIC [ 0 ] = 0;
BUFFER_SIZE = .BLOCKSZ;
                                           ! Now reset density to what the user specified.
                                           IF .MOUNT_OPTIONS [ OPT_DENSITY ]
                                           THEN
                                                 BEGIN
IF .MOUNT_OPTIONS[OPT_DENS_800]
THEN DENSITY[MTSV_DENSITY] = MTSK_NRZI_800
                                                        IF .MOUNT OPTIONS[OPT DENS 1600]
THEN DENSITY[MT$V DENSITY] = MT$K PE 1600
ELSE DENSITY[MT$V]DENSITY] = MT$K]GCR_6250;
                                           ! write the characteristics to the tape drive
                                          END:
                                                                                                                  ! end of routine RESET_DENSITY
                                                                                                  007C 00000 RESET_DENSITY:
                                                                                                                                                  Save R2,R3,R4,R5,R6
CHANNEL, R6
IO STATUS, R5
LIB$STOP, R4
COMMON_IO, R3
                                                                                                                                                                                                                                    1353
                                                                                                                                     . WORD
                                                                           00000000
000000006
000000006
                                                                                                     9999C7777DDDD
                                                                                                                                    MOVAB
                                                                                                                                    MOVAB
                                                                                                                                    MOVAB
                                                                                                                                    MOVAB
SUBL 2
                                                                                                                                    CLRQ
CLRQ
CLRQ
CLRQ
                                                                                                                                                                                                                                    1405
                                                                                                                                    PUSHL
PUSHL
```

PUSHL

PUSHL

CHANNEL

#26

MOUTAP V04-000							1	M 15 6-Sep- 4-Sep-	1984 01:24 1984 12:45	:03 VAX-11 BLiss-32 V4.0-742 :31 DISK\$VMSMASTER:[MOUNT.SRC]	MOUTAP.B32;1 (4)
				65 65 65 64		00000000000000000000000000000000000000	FB 00020 D0 00030 E9 00033 3C 00036	1 5 :		#12, COMMON_IO RO, STATUS STATUS, 1\$ IO_STATUS, STATUS STATUS, 2\$ STATUS #1, LIB\$STOP -(SP)	1406 1407 1413
				43	20	7E 7E 7E AE 27 66 1A	7C 00045 7C 00047 9F 00049 DD 0004C DD 0004E DD 00050		CLRQ CLRQ PUSHAB PUSHL PUSHL PUSHL	-(SP) -(SP) CHARACTERISTIC #39 CHANNEL #26	
				63 52 06 52 05		64 050 652 652 652	D0 00055 E9 00058 3C 00058 E8 00052 DD 00061 FB 00063 B4 00066 B0 00068 E9 0006D	38:	MOVL BLBC MOVZWL BLBS PUSHL	RO, STATUS STATUS, 3\$ CHARACTERISTIC, STATUS STATUS, 4\$ STATUS	1414 1415
05	AE	08 05	02 00006	64 AE 22 CF 00	0000G	01 6E A5 CF 01 03	FB 00063 B4 00066 B0 00068 E9 0006D E1 00072 F0 00078	48:	BLBS PUSHL CALLS CLRW MOVW BLBC BBC INSV	RO. STATUS STATUS, 3\$ CHARACTERISTIC, STATUS STATUS, 4\$ STATUS, 4\$ STATUS #1, LIB\$STOP CHARACTERISTIC BLOCKSZ, BUFFER SIZE MOUNT OPTIONS, 7\$ #1, MOUNT OPTIONS, 5\$ #3, #0, #5, DENSITY+1	1421 1420 1420 1420 1430
05	AE	08	00006	CF 00		14	E1 00072 F0 00078 11 0007E E1 00080 F0 00086	58:	BRB BBC INSV	7\$ #3. MOUNT OPTIONS+5, 6\$ #4, #0, #5, DENSITY+1 7\$	143 143
05	AE	05		00		03 04 06 05 7E 7E	F0 00086 11 0008C F0 0008E 7C 00094 7C 00096	6\$: 7\$:	BRB INSV CLRQ CLRQ	#5, #0, #5, DENSITY+1 -(\$P) -(\$P)	1434 1442
				63	14	7E 7E 755 266 100 550	D4 00098 9F 0009A 7C 0009D DD 0009F DD 000A1 DD 000A3 DD 000A5 FR 000A7		CLRL PUSHAB CLRQ PUSHL PUSHL PUSHL CALLS MOVL BLBC MOVZWL	-(SP) CHARACTERISTIC -(SP) R5 #35 CHANNEL #26 #12, COMMON_IO	
				63 52 06		26	00 000AA E9 000AD		MOVL BLBC	RO. STATUS STATUS, 88 IO_STATUS, STATUS	1443
				65 64		65 52 51	3C 000B0 E8 000B3 DD 000B6 FB 000B8 04 000BB	85:	BLBS PUSHL CALLS	RO. STATUS STATUS, 8\$ IO STATUS, STATUS STATUS, 9\$ STATUS #1, LIB\$STOP	1444
; Routine	Size	188 bytes,	Routine		\$CODE\$			98:	RET		1446

1447 1 ; 919

! end of routine TAPE_OWN_PRO

```
N 15
16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
MOUTAP
V04-000
                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
    MACRO INITIALIZE_MOUNT_TAPE =
                        14451
14451
14457
14457
14457
14454
14464
14467
14477
1477
                                        FUNCTIONAL DESCRIPTION:
                                                 This MACRO is the code that is done 1st thru the routine MOUNT TAPE. It initialize the prototypes for the MVL, RVT and VCB. The code also
                                                 does some one time only checks.
                                        CALLING SEQUENCE:
INITIALIZE_MOUNT_TAPE
                                        PARAMETERS:
                                                 All of MOUNT_TAPE's parameters
                                    BEGIN
                                       get a handle on the UCB list contained in the RVT
                                     UCBLIST = PROTO_RVT[RVT$L_UCBLST];
                                        Now fill in VCB prototype
                                    PROTO_VCB[VCB$W_TRANS] = 1;
PROTO_VCB[VCB$W_MCOUNT] = 1;
PROTO_VCB[VCB$W_RECORDSZ] = .RECORDSZ;
                        1478
1479
1480
1481
1482
1483
                                       If files-11 use label in VOL1 else use user's label as the volume name in the
                                       VCB
                                   IF .MOUNT_OPTIONS[OPT_IS_FILES11]
THEN CH$COPY ( VL1$S_VOL[BL, VOL1[VL1$T_VOLLBL], VCB$S_VOLNAME, PROTO_VCB[VCB$T_VOLNAME])
ELSE CH$COPY ( .LABEL_STRING[O,LEN], .LABEL_STRING[O,ADDR], VCB$S_VOLNAME, PROTO_VCB[VCB$T_VOLNAME]);
                        1484
1485
1486
1487
1488
1489
1491
1493
1494
1496
1497
1498
1498
1499
1500
1501
                                       If Files-11 mount, fill in MVL + VCB
                                     if not ( .mount_options[opt_foreign] or .mount_options[opt_nolabel] )
                                    THEN
                                           BEGIN
                                              stuff away the number of labels we have
                                           IF .LABEL_COUNT EQL O THEN LABEL_COUNT = 1;
                                           PROTO_MVLEMVL$B_NVOLS] = .LABEL_COUNT;
                                             copy the FILE SET ID to the MVL ( checked on tape reel switch by MTAACP )
                                           CHSCOPY ( HD185_FILESETID, ANSI_LABEL [ HD187_FILESETID ], '', MVL85_SET_ID, PROTO_MVL [ MVL87_SET_ID ] );
                                           ! copy VOL1 Accessibility Charater to MVL for default writing during
```

```
B 16
16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
MOUTAP
V04-000
                                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                                MTAACP next volume writes
                           CHSMOVE (MVL$S_VOLOWNER, VOL1[VL1$T_VOLOWNER], PROTO_MVL[MVL$T_VOLOWNER]);
PROTO_MVL[MVL$B_VOL_ACC] = .VOL1[VL1$B_VOLACCESS];
                                                            get a handle on the label list inside the MVL
                                                        MVL_ENTRY = PROTO_MVL+MVL$K_fixLEN;
    986
987
988
989
990
991
992
993
995
996
997
998
999
                                                            Fill in the known constant for the prototype VCB
                                                                                                                 .MOUNT OPTIONS[OPT OVR ACC];
.MOUNT OPTIONS[OPT OVR EXP];
.MOUNT OPTIONS[OPT OVR ID];
.MOUNT OPTIONS[OPT OVR SETID];
.MOUNT OPTIONS[OPT NONDR3];
.MOUNT OPTIONS[OPT OVR VOLO];
.MOUNT OPTIONS[OPT INIT ALL] OF .MOUNT OPTIONS[OPT NOAUTO];
.MOUNT OPTIONS[OPT NOAUTO];
.MOUNT OPTIONS[OPT INTERCHE]
                                                        PROTO_VCB[VCB$V_OVRACC]
PROTO_VCB[VCB$V_OVREXP]
PROTO_VCB[VCB$V_OVRLBL]
                                                        PROTO VCB[VCB$V OVRSETID]
PROTO VCB[VCB$V NOHDR3]
PROTO VCB[VCB$V OVRVOLO]
                                                                                                             =
                                                        PROTO_VCB[VCB$V_INIT]
PROTO_VCB[VCB$V_NOAUTO]
PROTO_VCB[VCB$V_INTCHG]
                                                                                                                                                                            OR .MOUNT_OPTIONS[OPT_INIT_CONT];
                                                                                                              =
                                                                                                                  .MOUNT_OPTIONS[OPT_INTERCHG];
                                                                                                             = .PRIVILEGE_MASK[PRV$V_OPER];

= .PRIVILEGE_MASK[PRV$V_VOLPRO];

= .PRIVILEGE_MASK[PRV$V_VOLPRO]

.PRIVILEGE_MASK[PRV$V_BYPASS]

.PRIVILEGE_MASK[PRV$V_OPER]

.PRIVILEGE_MASK[PRV$V_SYSPRV];

= .LABEL_VER;
                                                        PROTO_MVL[MVL$V_OPER]
PROTO_MVL[MVL$V_VOLPRO]
    1001
    1002
                                                         PROTO_MVL[MVL$V_OVRPRO]
    1003
    1004
    1005
   1006
1007
                                                        PROTO_MVL[MVL$B_STDVER]
   1008
                                                        END:
   1009
                                must have operator privilege to monkey with the ACP
   1011
                                                        (.MOUNT_OPTIONS[OPT_UNIQUEACP] OR .MOUNT_OPTIONS[OPT_SAMEACP] OR .MOUNT_OPTIONS[OPT_FILEACP])
   1012
   1013
   1014
                                                    AND (NOT .PRIVILEGE_MASK[PRV$V_OPER])
THEN ERR_EXIT (SS$_NOPRIV);
   1015
   1016
   1017
                                                    If not Files-11 mount or mount foreign or mount no labels then only one unit can be involved. If Files-11 allocate
   1018
   1019
   1020
1021
1023
1024
1025
1026
1027
1028
1029
1030
                                                    secondary units checking that the maximum number of devices is not exceeded.
                                               IF (.DEVICE_COUNT EQL 0)
OR ((NOT .MOUNT_OPTIONS[OPT_IS_FILES11]
OR .MOUNT_OPTIONS[OPT_FOREIGN]
OR .MOUNT_OPTIONS[OPT_NOLABEL])
AND (.DEVICE_COUNT_NEQ_T))
THEN ERR_EXIT (MOUNS_DEVICES);
                                 1556
1557
1558
1559
                                                    remember the first volume's UIC and Protection ( used in the UCB )
                                                FIRST_V_DROT = .VOLUME_UIC;
FIRST_V_PROT = .VOLUME_PROT;
   1032
                                                 END:
                                                                                                                          ! end of Macro INITIALIZE_MOUNT_TAPE
```

```
D 16
16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
MOUTAP
V04-000
                                                                                                      VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.832;1
1093
1094
1095
1096
                            IF NOT ( .MOUNT_OPTIONS[OPT_FOREIGN] OR .MOUNT_OPTIONS[OPT_NOLABEL] )
THEN______
                  BEGIN
                                1096
1097
  1098
1099
  1100
   101
                                          IF .I
  1102
1103
                                              BEGIN
  1104
1105
                                              LADDR = MVL ENTRY[.J.MVL$T VOLLBL];
DECR K FROM MVL$S VOLLBL TO 0 DO
  1106
1107
                                                   BEGIN
SIZE = .K;
  1108
                                                   IF .SIZE NEQ 0
  1109
                                                   THEN
  1110
                                                        IF .LADDR[.SIZE-1] NEQ ' ' THEN EXITLOOP:
                                              ERR_MESSAGE (MOUNS MOUNTED 3. SIZE, MVL_ENTRY[.J, MVL$T_VOLLBL], PHYS_NAME[.I,LEN]);
  1114
                                              END:
                                END
  1116
                           ELSE
  1117
                                 BEGIN
                                LOCAL LADDR : REF VECTOR[,BYTE],
  1119
                                 LADDR = PROTO_VCB[VCB$T_VOLNAME]:
                                DECR I FROM VEBSS_VOLNAME TO 0 DO
                                     BEGIN
                                     SIZE = .1:
                                     IF .SIZE NEQ O
                                     THEN
                                          IF .LADDR[.SIZE-1] NEQ ' ' THEN EXITLOOP:
                                ERR_MESSAGE (MOUN$_MOUNTED,3,.SIZE,PROTO_VCB[VCB$T_VOLNAME],
                                               PHYS_NAME[O,LEN]);
                                END;
                                                                          ! end of Macro DONE_MOUNT_TAPE
                  1658
```

```
E 16
16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
MOUTAP
V04-000
                                                                                                                                          VAX-11 Bliss-32 V4.0-742 Page DISKSVMSMASTER: [MOUNT.SRC]MOUTAP.B32;1
                         1659
1660
1661
1663
1664
1665
1666
1667
1668
1669
1670
                                     GLOBAL ROUTINE MOUNT_TAPE : NOVALUE =
  FUNCTIONAL DESCRIPTION:
                                                  This routine performs the mechanics of mounting magnetic tape
given as input the parsed and partially validated command line.
                                         CALLING SEQUENCE: MOUNT_TAPES ()
                                         INPUT PARAMETERS:
                                                  NONE
                                         IMPLICIT INPUTS:
                                                  mount parser data base
CHANNEL channel number for I/O
VOL1 ANSI VOL1 label if Files_11
                                        OUTPUT PARAMETERS:
                         1680
1681
1682
1683
1684
1685
1686
                                                  NONE
                                         IMPLICIT OUTPUTS:
                                                  NONE
                                        ROUTINE VALUE:
                                                  NONE
                                        SIDE EFFECTS:
                         1689
1690
1691
1692
1693
                                                  VCB, RVT, MVL created
                                        USER ERRORS:
                                                  NONE
                         1695
1696
1697
                                     BEGIN
                          1698
                                        Define descriptor vector displacements
                                                              = 0.0.16.0%;
= 4.0.32.0%;
                                     MACRO LEN
                                     MACRO ADDR
                                     EXTERNAL
                          704
705
706
707
708
709
                                                  DEVICE_COUNT,
DEVICE_STRING
                                                                                                                           # of devices specified vector of devices string
                                                                           : BBLOCKVECTOR[DEVMAX.8],
                                                                                                                          descriptors
vector of label string
descriptors
                                                                            : BBLOCKVECTOR[LABMAX.8],
                                                  LABEL_STRING
                                                                                                                           number of physical
                                                  PHYS_COUNT,
                                                                                                                           devices allocated vector of physical
                                                                           : BBLOCKVECTOR[DEVMAX.8];
                                                  PHYS_NAME
                                                                                                                             devices allocated
                                      LOCAL
                                                  STATUS,
```

```
MOUTAP
VO4-000
                                                                                16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
                                                                                                             VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
  1191
1192
1193
                                        UCB:
                              OWN
  1194
                                        MVL ENTRY
UCBCIST
                                                            : REF BBLOCKVECTOR[LABMAX, MVL$K_LENGTH],
: REF VECTOR; ! vector of UCB in RVT
  1196
  1197
                              ! Enable handler to clear valid on all but current device
  1198
  1199
                              ENABLE ERROR_HANDLER:
  1200
1201
1202
1203
1204
1205
1206
1207
1208
1209
                              ! initialize things and do some 1 time checks if first time thru
                              IF .DEVICE_INDEX EQL O THEN INITIALIZE_MOUNT_TAPE;
                              ! Position tape to beginning again
                             If the accessibility routine allows us to check the VMS protection then
                                check privileges.
                                First check to see if users has read/write access to the volume. If the
                                user does not have access to the volume then check to see if the user has priv's to override the access or if the user is the owner of the volume.
                                 .ACCESS
THEN
                              15
                   1746
1747
1748
                                 BEGIN
                                        IF NOT KERNEL_CALL (CHECK_PROT, VOLUME_PROT, VOLUME_UIC, .PROCESS_UIC,
                                                                           WRITE_RING[0])
                                            THEN
                                           BEGIN
                                                  IF (.MOUNT_OPTIONS[OPT_OVR_PRO]
                                                  AND ( NOT (.PRIVILEGE MASK[PRV$V VOLPRO]
OR (.VOLUME UIC EQE .PROCESS_UIC) ) )
THEN ERR_EXIT (SSS_NOPRIV);
                                           END:
                                END:
                    758
759
1760
                              ! get the UCB of the currect channel and stuff it away in the RVT
                    1761
1762
1763
1764
1765
1766
1767
                              UCB = KERNEL_CALL (GET_CHANNELUCB,.CHANNEL);
                              ! Check that duplicate device has not been specified
                              INCR J FROM 0 TO .DEVICE_INDEX - 1 DO

IF .UCBLISTE.J] EQL .UCB THEN ERR_EXIT (MOUNS_DUPDEVSPC);
                              UCBLIST[.DEVICE_INDEX] = .UCB;
                              ! If Files-11 mount, stuff the label in the MVL and mark it mounted
```

```
MOUTAP
V04-000
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                                         IF NOT ( .MOUNT_OPTIONS[OPT_FOREIGN] OR .MOUNT_OPTIONS[OPT_NOLABEL] )
THEN
                                               BEGIN
CHSTRANSLATE ( TRANSLATION TABLE,
VL1$S_VOLLBL, VOE1 [VL1$T_VOLLBL],
MVL$S_VOLLBL, MVL ENTRY [.DEVICE INDEX, MVL$T_VOLLBL]);
MVL ENTRY[.DEVICE INDEX, MVL$B_STATUS] = 0;
MVL ENTRY[.DEVICE INDEX, MVL$V_MOUNTED] = 1;
MVL ENTRY[.DEVICE_INDEX, MVL$V_MOUNTED] = .DEVICE_INDEX;
END:
                                                END:
                                         ! do some last time only stuff
                                         IF .DEVICE INDEX EQL (.DEVICE_COUNT - 1)
THEN DONE_MOUNT_TAPE;
                                         END:
                                                                                                              ! end of routine MOUNT_TAPE
                                                                                                                                .PSECT SOWNS.NOEXE.2
                                                                                                       00291 MVL_ENTRY:
                                                                                                       00298 UCBLIST: .BLKB
                                                                                                                                            DEVICE COUNT, DEVICE STRING LABEL STRING, PHYS_COUNT PHYS_NAME
                                                                                                                                .EXTRN
                                                                                                                                .EXTRN
                                                                                                                                EXTRN
                                                                                                                               .PSECT
                                                                                                                                            SCODES, NOURT, 2
                                                                                              OFFC 00000
                                                                                                                                            MOUNT TAPE, Save R2,R3,R4,R5,R6,R7,R8,R9,-R10,RT1
                                                                                                                                                                                                                            1659
                                                                                                                               .ENTRY
                                                                                                                                            MOUNT OPTIONS, R11
PROTO VCB+44, R10
38$, (FP)
DEVICE_INDEX
                                                                   5B
5A
6D
                                                                               0000e
                                                                                                                               MOVAB
                                                                                                  9EEE531E0001C
                                                                                                       00007
                                                                                                                               MOVAB
                                                                               038D
0000G
                                                                                                                                                                                                                            1696
1728
                                                                                                                               MOVAL
                                                                                                      00001
00015
00017
0001A
00021
00025
00029
                                                                                                                               TSTL
                                                                                                                               BEQL
                                                                                                                               BRW
                                                                                                                                            PROTO RVT+68, UCBLIST
#1, PROTO_VCB+12
#1, PROTO_VCB+76
RECORDSZ, PROTO_VCB+80
#1, MOUNT_OPTIONS+4, 28
#6, VOL1+4, #32, #12, PROTO_VCB+20
                                                      01F8
E0
20
24
                                                                   CA
AA
AA
                                                                               0104
                                                                                                                               MOVAB
                                                                                                                               MOVU
                                                                                                                               MOVW
                                                                               0000G
                                                                                                                               MOVW
                                                                  AB
                                           0B
20
                                                                                                                               BBC
                                                                                                                               MOVC5
                  00
                                                       0000G
                                                                                  E8
                                                                                           OB
CF
AA
O3
                                                                                                  11
20
                                                                                                                               MOVC5
                                                                                                                                             LABEL_STRING, DLABEL_STRING+4, #32, #12, - PROTO_VCB+20
                                                                               0000G
                  00
                                           20
                                                       0000G
                                                                  DF
                                                                                                                                             #3. MOUNT_OPTIONS+1, 5%
                                                                                                  E11052
                                           03
                                                          01
                                                                                                                               BBC
                                                                                                                               BRW
                                           F8
                                                          01
                                                                   AB
                                                                                                                               BBS
                                                                                                                                             #4, MOUNT_OPTIONS+1, 4$
                                                                               0000G
                                                                                                                               TSTL
                                                                                                                                              LABEL_COUNT
                                                                                                                               BNEO
                                                       0000G
                                                                                                                                             #1, LABEL_COUNT
                                                                   CF
                                                                                                                               MOVL
```

MOUTAP V04-000				,				H 16 16-Sep-1984 01:24:03 VAX-11 BLiss-32 V4.0-742 Page 14-Sep-1984 12:45:31 DISKSVMSMASTER:[MOUNT.SRC]MOUTAP.B32;1	(7)
		0150 0158	CA	014F FF79 0000G 0156 01F4	CA CF CA		CF OE CF	90 00062 6\$: MOVB LABEL COUNT, PROTO MVL+11 28 00069 MOVC3 M6, ARSI LABEL+21, PROTO MVL+12 28 00071 MOVC3 M14, VOLT+37, PROTO MVL+20 90 00079 MOVB VOL1+10, PROTO MVL+T8 9E 00080 MOVAB PROTO MVL+36, MVL ENTRY EF 00087 EXIZY M6, MT, MOUNT OPTIONS+4, RO	
01	50 60 60 60 60 60 60 60 60 60 60 60 60 60	04 02 02 02 05 07	AB 01 AB 01 AB 01 AB 01 AB	0164	CA100100100100100100100100100100100100100	0000G 0168	COOCCOSOSOSOSOSOSOSOSOSOSOSOS	EF 00092	
01 01	50 AA 50 6A	07 07	01 AB 01 AB 01		03 01 04 01 04		50 01 50 05 50	88 00006 BISB2 R1, R0 F0 00009 INSV R0, #3, #1, PROTO_VCB+45 EF 0000F EXTZV #1, #1, MOUNT_OPTIONS+7, R0 F0 000E5 INSV R0, #4, #1, PROTO_VCB+45 EF 000EB EXTZV #5, #1, MOUNT_OPTIONS+7, R0 F0 000F1 INSV R0, #4, #1, PROTO_VCB+44	
0157 0157	51 CA 51 CA 51 52		60 01 60 01 60		01 02 01 00 01	CC	51 15 51 15	FO 000E5	
	53 52		60		51 01 51		52 12 53	C8 0011C BISL2 R2, R1 EF 0011F EXTZV #18, #1, (R0), R3 C8 00124 BISL2 R3, R1 EF 00127 EXTZV #28, #1, (R0), R2	
0157	CA		01 0A 05 0E 09	0166 03 03 03 CC	52 01 CA AB AB AB	C8	51C1 52A 034 034 12	DO 000F6 EF 000FA EXTZV	
				00000000G	00 50	00006	24 01 CF 14	DD 00150 PUSHL #36 FB 00152 CALLS #1, LIB\$STOP DO 00159 98: MOVL DEVICE_COUNT, RO	
			0A 05 12	04 01 01	AB AB O1		01	E0 0014B 88: BBS #18, aprivilege_mask, 98 DD 00150 PUSHL #36 FB 00152 CALLS #1, LIB\$STOP D0 00159 98: MOVL DEVICE_COUNT, RO 13 0015E BEQL 118 E1 00160 BBC #1, MOUNT_OPTIONS+4, 108 E0 00165 BBS #3, MOUNT_OPTIONS+1, 108 E1 0016A BBC #4, MOUNT_OPTIONS+1, 128 D1 0016F 108: CMPL RO, #1	
				00000000G B8 BC	00 AA AA	00728174	03 04 50 08 08 01 CA 7E	DD 00174 118: PUSHL #7504244 FB 0017A	1734

- 8

MOUTAP V04-000				(7)
		7E 7E 7E 0000G CF	7C 0018F CLRQ -(SP) 7C 00191 CLRQ -(SP) 7C 00193 CLRQ -(SP) 9F 00195 PUSHAB IO STATUS DD 00198 PUSHL #38 DD 0019A PUSHL #26 FB 001A0 CALLS #12, COMMON_IO DO 001A7 MOVL RO, STATUS E9 001AA BLBC STATUS, 148 3C 001AD MOVZWL IO STATUS, STATUS	
	00000000 00	0000G CF	DD 00198 PUSHL #38 DD 0019A PUSHL CHANNEL DD 0019E PUSHL #26	
	000000006 00 59 07	50	DO 001A7 MOVL RO, STATUS E9 001AA BLBC STATUS, 148 3C 001AD MOVZWL 10 STATUS, STATUS E8 001B1 BLBS STATUS, 158	735
	0000G CF	CO AA 59	DD 00198 DD 0019A DD 0019A PUSHL #36 PUSHL #26 FB 001A0 CALLS #12, COMMON_IO DO 001A7 MOVL RO. STATUS E9 001AA BLBC STATUS, 148 3C 001AD BLBS STATUS, 558 D1 001B4 148: CMPL DEVICE_INDEX, LABEL_COUNT BGEQ 158 DD 001BB BGEQ 158	736
	0000G CF	0000G CF 09 59	D1 001B4 148: CMPL DEVICE_INDEX, LABEL_COUNT 18 001BB BGEQ 158 DD 001BD PUSHL STATUS FB 001BF CALLS #1, LIB\$STOP	
	00000000G 00 3B	FF60 CA 01F0 CA	FB 001BF CALLS #1, LIB\$STOP E9 001C6 15\$: BLBC ACCESS, 16\$ PUSHAB WRITE RING DD 001CF PUSHL PROCESS UIC 9F 001D2 PUSHAB VOLUME DIC 9F 001D6 PUSHAB VOLUME_PROT DD 001DA PUSHL #4 DD 001DC PUSHL SP	744
		OTEC CA	9F 001CB PUSHAB WRITE RING DD 001CF PUSHL PROCESS UIC 9F 001D2 PUSHAB VOLUME DIC 9F 001D6 PUSHAB VOLUME PROT DD 001DA PUSHL #4	740
		01EC CA 01E8 CA 04 5E	9F 001D6 PUSHAB VOLUME_PROT DD 001DA PUSHL #4	
	00000000 9F	0000G CF	DD 001DC PUSHL SP 9F 001DE PUSHAB CHECK PROT FB 001E2 CALLS #7, a#sys*cmkrnl	
	11 CC BA	04 AB	DD 001DC	751 1752 1753
	11 CC BA	OTEC CA	D1 001F5 CMPL VOLUME_UIC, PROCESS_UIC 11 13 001FB BEQL 16\$	
	000000006 00	0000G CF	LB MAILL FWELD MIN FIDMAINS	1754 1762
		01 5E 00006 CF	DD 00206 16\$: PUSHL CHANNEL DD 0020A PUSHL #1 DD 0020C PUSHL SP 9F 0020E PUSHAB GET_CHANNELUCB	
	00000000 9F	50	FB 00212	
	53 52	00006 CF	DO 0021C MOVL DEVICE_INDEX, R3 CE 00221 MNEGL #1, J 11 00224 BRB 18\$	766 767
	54	01F8 DA42		
	000000006 00 E7 52	007280D4 8F	DD 0022E PUSHL #7504084 FB 00234 CALLS #1, LIB\$STOP F2 0023B 188: AOBLSS R3, J, 17\$	
	01F8 DA40	0000G CF	DO 0023F MOVL DEVICE INDEX, RO DO 00244 MOVL UCB, a0CBLIST[RO] EF 0024A EXTZV #3, #1, MOUNT_OPTIONS+1, R7 EF 00250 EXTZV #4, #1, MOUNT_OPTIONS+1, RO	769
57 01 50 01	AB 01 01 57	03 04 30		773
	3b 56 50	01F4 CA 0000G CF	E8 00259 BLBS R7, 198 D0 0025C MOVL MVL ENTRY, R6 D0 00261 MOVL DEVICE INDEX, R0 7F 00266 PUSHAQ (R6)[RU]	778
0000° CF	20 0000G CF 9E	6640 6640 06	7F 00266 PUSHAQ (R6)[RU] 2E 00269 MOVIC #6, VOL1+4, #32, TRANSLATION_TABLE, #6, - 00272 Q(SP)+	

40UTAP V04-000								J 16 16-Se 14-Se	p-1984 01:24 p-1984 12:45	:03	VAX-11 BLiss-32 V4.0-742 Pa DISKSVMSMASTER:[MOUNT.SRC]MOUTAP.B32;1	ge 37
					50	0000G CF 07 A640 9E 0000G CF 07 A640	00 7F	00274	MOVL	DEVICE 7(R6)	E INDEX, RO	: 1779
					50	0000G CF	94	0027b 0027f	MOVL	2(50)4		1780
					9E 50	00006 (6	88	00288	CLRB MOVL PUSHAQ BISB2 MOVL PUSHAQ	#1, ac	E INDEX, RO [RO] (SP)+ E INDEX, RO [RO]	1781
					9E	00006 CF 06 A640 00006 CF	7 F	00290 00294 00299 19\$	PUSHAQ	6(R6)	[RO] E INDEX. a(SP)+	. 1701
			50	00006	CF 50	00006 CF	90 C3 D1 13	00299 198 0029F 002A4	MOVB SUBL3 CMPL BEQL RET	#1. DE DEVICE 20\$	E INDEX, a(SP)+ EVICE COUNT, RO E_INDEX, RO	1786
					45 58 56	00006 CF 00006 CF 35	04 E8 D0	002A6 002A7 20\$ 002AA 002AF 002B4	MOVL MOVL		COUNT, R8 E_INDEX, I	1787
					06	0000GCF46	7F B1	002B6 21\$: PUSHAQ	LABEL a(SP)	STRINGLIJ	
					7E 00	0304 8F	1B 3C	002BB 002BE 002C0 002C5	CMPW BLEQU MOVZWL	226		
				000000006		0000GCF46	FB 7F	002C5 002CC 228	: PUSHAQ	#1, LI	IB\$STOP _STRING+4[I]	
					50 57	01F4 DA46 0000GCF46	00 7E	002D1 002D4	CALLS PUSHAQ MOVL MOVAQ PUSHAQ MOVTC	a(SP)	-(SP) IB\$STOP STRING+4[I] T, RO ENTRY[I], R7 STRING[I] T, (RO), #32, TRANSLATION_TABLE, #6, -	
0000	CF		20		60	9E 06	7F 2E	002CC 22\$ 002D1 002D4 002DA 002DF 002E6		a(SP) (R7)	T, (RO), #32, TRANSLATION_TABLE, #6, -	
		00CB	C7 CA	00006	56 CF	9E 06 07 58 01 7E	94 F2 81 D4	002EB 23\$	CLRB AOBLSS ADDB3 CLRL PUSHL	(R7) 7(R7) R8, I #1, DE -(\$P)	21\$ ÉVICE_INDEX, PROTO_RVT+11	
				000000006	9f 59 09	0000V CF 03 50 59	DD 9F F8 DO E8	002F9 002FB 002FF 00306 00309	PUSHAB	SP MAKE 1 M3, 34 RO, S1 STATUS	TAPE MOUNT #SYS\$CMKRNL TATUS S. 25\$	
	50 50	01 01F0	AB	000000006	00 01 01	59 01 01 00	FD ED F ED	0030C 0030E 00315 25\$	MOVL BLBS PUSHL CALLS EXTZV CMPZV BEQL PUSHL CALLS	STATUS #1, L1 #1, #1	S IB\$STOP 1, MOUNT_OPTIONS+1, RO 1, WRITE_RING, RO	0
				00000000	00	072A013 8F	DD	00324 00324	PUSHL	#75120	083 IR\$SIGNAL	
			68	01 01 01F4	00 AB AB CA 57	01 00 00 00 00 00 01 01 03 04 0168 CA 0000G CF	E13 D B E E E E E E E E E E E E E E E E E E	002EF 002F7 002F9 002FB 003FF 00306 00306 00306 00315 00318 0032A 0032A 00336 00336 00338 00338 00342 00347	BBS BBS MOVAB MOVL MNEGL	#3, MO #4 MO PROTO PHYS T	TAPE MOUNT #SYSSCMKRNL TATUS \$, 25\$ IB\$STOP 1, MOUNT_OPTIONS+1, RO 1, WRITE_RING, RO 083 IB\$SIGNAL OUNT_OPTIONS+1, 34\$ OUNT_OPTIONS+1, 34\$ MVL 736, MVL_ENTRY COUNT, R7	•
					56 53	014F CA	11 9A	0034A 0034C 27\$	BRB	PROTO_	_MVL+11, R6	•
	52	06	A0		50 08	01F4 DA43	11 7E ED 12	00354 00356 28\$ 00350 00362 00364	BRB	#1. J 32\$ amvl E	ENTRY[J], RO B, 6(RO), I , 32\$	•
					20	07 A0	EŠ	00364	BLBC	7(RO),	, 32\$	•

MOUTAP V04-000					K 16 16-Sep- 14-Sep-	1984 01:24 1984 12:45	:03 VAX-11 Bliss-32 V4.0-742 Page :31 DISK\$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1 (38
		54 51 55	50 06 51	DO 0036 DO 0036 DO 0036	8 B E 298:	MOVL MOVL	RO, LADDR #6. K K SIZE 30\$	
		20	FF A544	91 0037 12 0037	3	ENE Q CMPB	-1/C17E\F ADDD1 #32	
		F1	0000GCF 42	7f 0037 DD 0038 DD 0038	A 308: 0 318: 2	PUSHAQ PUSHL PUSHL	31\$ K. 29\$ PHYS_NAME[I] RO SIZE	
	00000000G BD AF	00 53 52	0072A003 8F 05 56 57	DD 0038 DD 0038 FB 0038 F2 0039	6 8 5 328: 9 338:	MOVL MOVL BEQL CMPB BNEQ SOBGEQ PUSHL PUSHL PUSHL PUSHL CALLS AOBLSS RET MOVAB MOVL BEQL CMPB BNEQ SOBGEQ PUSHAB PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL CALLS	#3 #7512067 #5, LIB\$SIGNAL R6, J. 28\$ R7, I, 27\$	
		50 52 51	E8 AA 0C 52	04 0039 9E 0039 00 0034	D	RET MOVAB MOVL MOVL	PROTO_VCB+20, LADDR #12. T I, SIZE 36\$	
		20	FF A140 03 52	13 003A 91 003A 12 003A	A F	CMPB BNEQ		
		F1	0000G CF	9F 003E 9F 003E DD 003E	4 378:	SOBGEQ PUSHAB PUSHAB	37\$ I. 35\$ PHYS_NAME PROTO_VCB+20 SIZE	
	000000006	00	0072A003 8F	DD 003E DD 003E FB 0030	D F	PUSHL PUSHL CALLS RET	#7512067 #5, LIB\$SIGNAL	789 596
	0000v	7E CF	7E 5E 04 AC 03	000 0030 D4 0030 DD 0030 70 0030 FB 0030 04 0030	F 1 3 7	RET .WORD CLRL PUSHL MOVQ CALLS	Save nothing -(SP) SP 4(AP), -(SP) #3, ERROR_HANDLER)40

; Routine Size: 989 bytes, Routine Base: \$CODE\$ + 0513

: 1265 1790 1

```
L 16
16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
MOUTAP
VO4-000
                                                                                                                    VAX-11 Bliss-32 V4.0-742 Pag
DISKSVMSMASTER: [MOUNT.SRC]MOUTAP.B32;1
                     1791
1792
1793
1794
1795
1796
1797
1798
1799
1801
1805
1806
1807
1808
  ROUTINE MAKE_TAPE_MOUNT =
                                  FUNCTIONAL DESCRIPTION:
                                          This routine does the data base manipulation to get a
                                          volume mounted
                                  CALLING SEQUENCE:
                                          MAKE_TAPE_MOUNT (), called in kernel mode
                                  INPUT PARAMETERS:
                                          NONE
                                  IMPLICIT INPUTS:
                                          mount parser variables
                                          own variables in this module
                                  OUTPUT PARAMETERS:
                                          NONE
                                  IMPLICIT OUTPUTS:
                                          NONE
                                  ROUTINE VALUE:
                                           - success
                                          other status codes
                                  SIDE EFFECTS:
                                          NONE
                                  USER ERRORS:
                                          NONE
                               BEGIN
                               EXTERNAL
                                          OWNER UIC,
PROTECTION,
                                                                                                  owner UIC from command line
                                                                                                  protection from command line
                                          REAL_MVL
REAL_RVT
REAL_VCB
SCH$GL_CURPCB
USER_UIC;
                                                               : REF BBLOCK,
                                                                                                  real MVL
                                                               REF BBLOCK, real RVT
REF BBLOCK ADDRESSING MODE (ABSOLUTE),
                                                                                                 user UIC from command line
                                LOCAL
                                                               REF
                                                                       BBLOCK,
BBLOCK,
                                          PRIMARY_UCB
                                                                                                  primary UCB
                                          UCB
                                                                                                 secondary UCB
primary ORB
                                          PRIMARY_ORB
                                                               : REF BBLOCK, : REF VECTOR DEVMAX);
                                                                                                 secondary ORB
UCB list in RVT
                                          ORB
                                          UCBLIST
                                  Enable our condition handler.
```

```
MOUTAP
                                                                            16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
                                                                                                         VAX-11 Bliss-32 V4.0-742
                                                                                                                                                   Page
V04-000
                                                                                                         DISK$VMSMASTER: [MOUNT.SRC]MOUTAP.B32:1
                            BBLOCK[PRIMARY_UCB[UCB$L_DEVCHAR], DEV$V_WCK] = .MOUNT_OPTIONS[OPT_WRITECHECK];
                   1906
                            IF NOT . MOUNT_OPTIONS[OPT_FOREIGN] AND NOT . MOUNT_OPTIONS[OPT_NOLABEL]
                            THEN
  1384
1385
                   1908
                                 BEGIN
                   1909
                                 PRIMARY_UCBEUCB$L_DEVCHAR] = .PRIMARY_UCBEUCB$L_DEVCHAR] AND NOT DEV$M_REC;
  1386
1387
                   1910
                                 START_ATP (.PRIMARY_UCB,.REAL_VCB,AQB$K_MTA);
                   1911
1912
1913
  1388
                            ELSE
  1389
                                 BEGIN
                   1914
   1390
                                 LOCK TODB ():
  1391
                                 PRIMARY_UCB[UCB$L_VCB]
                                                                 = .REAL VCB:
  1392
1393
                   1916
                                                                   .PRIMARY_UCB[UCB$L_DEVCHAR] OR
                                 PRIMARY_UCB[UCB$L_DEVCHAR] =
                                                                      (DEVSM_MNT OR DEVSM_FOR OR DEVSM_REC);
                   1918
  1394
                                                                    .PRIMARY_UCBEUCB$L_DEVCHAR] AND
                                 PRIMARY_UCB[UCB$L_DEVCHAR] =
   1395
                                                                      NOT (DEV$M_DIR OR DEV$M_SDI);
                   1920
   1396
                                 UNLOCK_IODB ();
   397
                   1921
                                 END:
                   1922
  1398
  1399
                            IF .CLEANUP_ALLOC[0] THEN PRIMARY_UCB[UCB$V_DEADMO] = 1;
                   1924
  1400
  1401
                            IF NOT .WRITE_RING [ O ] THEN BBLOCK[PRIMARY_UCB[UCB$L_DEVCHAR], DEV$V_SWL] = 1;
                   1926
1927
1928
1929
  1402
  1403
                            PRIMARY_UCB [UCBSW_REFC] = .PRIMARY_UCB [UCBSW_REFC] + 1;
  1404
  1405
                              Make allocation permanent
                   1930
  1406
                   1931
  1407
                             !PRIMARY_UCB[UCB$B_AMOD] = 0;
                   1932
1933
1934
1935
  1408
                            SEND_ERREOG (1,.PRIMARY_UCB);
  1409
  1410
                              Now set secondary UCB values if needed
  1411
                   1936
1937
  1412
                            IF .REAL_RVT NEG 0
                            THEN
                   1938
  1414
                              BEGIN
  1415
                              UCBLIST = REAL RVT[RVT$L UCBLST];
INCR I FROM 1 TO .REAL RVT[RVT$B NVOLS] -1 DO
  1416
1417
1418
                   1940
                   941
                                 BEGIN
                   942
                                 UCB
                                                            .UCBLIST[.I];
  1419
                                 ORB
                                                            .UCB[UCB$L_ORB];
                   1944
  1420
                                 UCB[UCB$V_UNLOAD]
                                                             .PRIMARY_UCBEUCB$V_UNLOAD];
                                 UCB[UCB$B_AMOD]
                                                          =
                                                                                        make allocation permanent
                   946
                                 ORB[ORB$L_OWNER]
ORB[ORB$V_PROT_16]
  1422
1423
1424
1425
1426
1427
1428
1429
1430
1431
                                                             .PRIMARY_ORB[ORB$L_OWNER];
                                                          =
                                                          =
                   948
                                 ORB[ORBSW_PROT]
                                                             .PRIMARY_ORB[ORB$W_PROT];
                                                          =
                                 UCB[UCB$L_VCB]
                                                            .REAL_VCB;
                                                            .PRIMARY_UCBEUCBSW_DEVBUFSIZ];
                    950
                                 UCB[UCB$W_DEVBUFSIZ]
                                                          =
                   1951
                                 (UCB[UCB$[_DEVDEPEND])<0,16>
                                                            .(PRIMARY_UCBEUCB$L_DEVDEPEND])<0,16>;
.UCBEUCB$E DEVCHAR] OR
(DEV$#_MNT OR DEV$M_DIR OR DEV$M_SDI);
                   1952
1953
                                 UCB[UCB$L_DEVCHAR]
                   1954
                   1955
                                 BBLOCK[UCB[UCB$L_DEVCHAR],DEV$V_RCK]
                   1956
1957
                                                             .BBLOCK[PRIMARY_UCB[UCB$L_DEVCHAR],DEV$V_RCK];
                                 BBLOCK[UCB[UCB$L_DEVCHAR], DEV$V_WCK]
  1434
                   1958
                                                             .BBLOCK[PRIMARY_UCB[UCB$L_DEVCHAR],DEV$V_WCK];
  1435
                   1959
                                 BBLOCKEUCBEUCB$L_DEVCHAR],DEV$V_REC]
                   1960
  1436
                                                          = 0:
                   1961
```

V04

```
MOUTAP
VO4-000
                                                                                                                  16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
                                                                                                                                                            VAX-11 Bliss-32 V4.0-742 Par DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.832;1
                            1962
1963
1964
1965
1966
1967
1968
  1438
                                                  IF .CLEANUP_ALLOC[.I] THEN UCB[UCB$V_DEADMO] = 1:
IF NOT .WRITE_RING [ 0 ] THEN BBLOCK[UCB[UCB$L_DEVCHAR], DEV$V_SWL] = 1;
   1440
   1441
                                                  UCB [UCB$W_REFC] = .UCB [UCB$W_REFC] + 1;
   1442
   1443
                                                  SEND_ERRLOG (1,.UCB);
                                                  END;
   1444
                             1969
                                              END:
   1446
                             1970
                             1971
                                           ENTER_LOGNAME (.PRIMARY_UCB,.REAL_VCB);
CTL$GL_VOLUMES = .CTL$GL_VOLUMES = 1;
                            1972
1973
   1448
                             1974
                                           RETURN 1:
   1451
                            1975
                                          END:
                                                                                                                                ! end of routine MAKE_TAPE_MOUNT
                                                                                                                                                  OWNER UIC, PROTECTION REAL_MVL, REAL_RVT REAL_VCB, SCH$GL_CURPCB USER_UIC
                                                                                                                                    .EXTRN
                                                                                                                                    .EXTRN
                                                                                                                                    .EXTRN
                                                                                                                                    .EXTRN
                                                                                                  OFFC 00000 MAKE_TAPE_MOUNT:
                                                                                                                                                 Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
REAL_VCB, R11
MOUNT_OPTIONS, R10
18$, (FP)
PROTO_RVT+68, PRIMARY_UCB
28(PRIMARY_UCB), PRIMARY_ORB
#2, MOUNT_OPTIONS+2, 1$
OWNER_UIC, (PRIMARY_ORB)
                                                                                                                                                                                                                                   1791
                                                                                  00006
00006
00006
                                                                                              CF
CF
CF
A7
                                                                                                      9E
9E
                                                                     5B
5A
6D
57
58
AA
68
                                                                                                           00002
                                                                                                                                    MOVAB
                                                                                                                                    MOVAB
                                                                                                                                                                                                                                    1828
1852
1853
                                                                                                     DE
                                                                                                           0000C
                                                                                                                                    MOVAL
                                                                                                           00011
                                                                                                                                    MOVL
                                                                                                     DO
E1
DO
11
                                                                                     10
                                                                                                           00016
                                                                                                                                    MOVL
                                                                                              02
CF
05
CF
                                            07
                                                            02
                                                                                                           0001A
                                                                                                                                                                                                                                    1857
                                                                                                                                    BBC
                                                                                                                                                                                                                                    1858
                                                                                  0000G
                                                                                                           0001F
                                                                                                                                    MOVL
                                                                                                          00024
00026 1$:
0002B 2$:
                                                                                                                                    BRB
                                                                                                                                                  FIRST V UIC, (PRIMARY_ORB)
#1, 1T(PRIMARY_ORB)
#1, MOUNT_OPTIONS+2, 3$
#-65281, PROTECTION, 24(PRIMARY_ORB)
                                                                     68
88
                                                                                  0000
                                                                                                                                                                                                                                    1859
                                                                                                     DO
88
E1
AB
11
                                                                                                                                    MOVL
                                                                                                                                                                                                                                    1861
                                                                                               01
                                                                                                                                    BISB2
                                                                                                          0002F
00034
                                                                                                                                    BBC
BICW3
                                                                                                                                                                                                                                    1862
                                                                      AA
                                   18
                                                                                  OOFF
                                                                                                                                                                                                                                    1863
                                                         0000G
                                                                                               8F
                                                                      CF
                                                                                                                                                  6$
#3, MOUNT_OPTIONS+1, 4$
#4, MOUNT_OPTIONS+1, 5$
#-256, 24(PRIMARY_ORB)
                                                                                               18
03
                                                                                                           0003D
                                                                                                                                    BRB
                                                                                                     E0
E1
B0
                                            05
                                                                                                                                                                                                                                    1865
                                                                                                           0003F 38:
                                                                                                                                    BBS
                                                                      AA
8A
                                                             01
                                                                                                           00044
                                                                                                                                    BBC
                                                                                                           00049
                                                                                                                                                                                                                                    1866
                                                             18
                                                                                  FF00
                                                                                                                                    MOVW
                                                                                                          0004F
00051
00057
                                                                                                                                    BRB
                                                                                                                    5$:
6$:
                                                                                                                                                  FIRST_V_PROT, 24(PRIMARY_ORB)
-(SP)
                                                                                                                                                                                                                                    1867
1871
                                                             18
                                                                     A8
                                                                                  0000
                                                                                                      80
                                                                                                                                    MOVW
                                                                                                      04
9A
                                                                                                                                    CLRL
                                                                                                           00059
00050
                                                                                                                                                  #236, -(SP)
#2, ALLOCATE_MEM
                                                                      7E
CF
                                                                                     EC
                                                                                                                                    MOVZBL
                                                         0000G
                                                                                                      FB
                                                                                                                                    CALLS
                                                                                                                                                  RO, REAL VCB
#17, 10(RO)
#225, PROTO VCB+11, 11(RO)
#3, MOUNT_OPTIONS+1, 7$
                                                                                                           00062
00065
                                                                      6B
                                                                                                      DO
90
28
E1
31
                                                                                                                                    MOVL
                                                                                                                                                                                                                                    1872
1873
1877
                                                                     AO
CF
                                                                                                                                    MOVB
                                             A0
03
                                                         0000
                                                                                  00E1
                                                                                                           00069
                                    0B
                                                                                                                                    MOVC3
                                                                                                           00072
                                                             01
                                                                      AA
                                                                                                                                    BBC
                                                                                                                                    BRW
                                                                                                           00077
                                                                                                      EO
                                                                                                           0007A 78:
                                             7E
                                                            01
                                                                                                                                    BBS
                                                                                                                                                         MOUNT_OPTIONS+1, 8$
                                                                                                     04
9A
78
                                                                                                                                                                                                                                    1879
                                                                                                                                                  -(SP)
                                                                                                           0007F
                                                                                                                                    CLRL
                                                                                                                                                 PROTO_RVT+11, RO
#2, RO, -(SP)
#68, (SP)
#2, ALLOCATE_MEM
RO, REAL_RVT
                                                                      50
50
6E
                                                                                                                                                                                                                                    1880
1879
                                                                                  0000
                                                                                                           00081
                                                                                                                                    MOVZBL
                                             7E
                                                                                                           00086
                                                                                                                                    ASHL
                                                                           00000044
                                                                                                           0008A
                                                                                                                                    ADDLZ
                                                         0000G
                                                                                                           00091
                                                                                                                                    CALLS
                                                                      CF
                                                                                                                                    MOVL
                                                         0000G
                                                                                                           00096
```

VO

MOUTAP V04-000							D 1 16-Sep- 14-Sep-	1984 01:24 1984 12:45	4:03 VAX-11 Bliss-32 V4.0-742 Pag 5:31 DISK\$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1	e 43 (8)
	0.0		0A	A0 51 51	08	0E A0 0B 51	90 0009B 3C 0009F C2 000A3	MOVB MOVZWL SUBL2 MOVC3 CLRL MOVZBL ASHL ADDL2 CALLS MOVL MOVL MOVB MOVZWL	#14, 10(R0) 8(R0), R1 #11, R1	1881 1882
	OB	AO	0000	CF		7E	C2 000A3 28 000A6 D4 000AD	CLRL	RI, PROTO_RVI+11, 11(RO) ;	1883
		7E		50 50	0000	03	9A 000AF 78 000B4	MOVZBL	PROTO MVL+11, RO	1883 1884 1883
			0000G 0000G	6E CF		02	CO 000BB FB 000BB	CALLS	#36, (SP) #2, ALLOCATE_MEM	
				CF 56	0000G	50 CF	DO 000C0	MOVL	RO, REAL_MVL REAL_MVL, R6	1885
			0A	A6 50	08	16 A6	DO 000C5 90 000CA 3C 000CE	MOVZWL	-(SP) PROTO_MVL+11, R0 #3, R0, -(SP) #36, (SP) #2, ALLOCATE_MEM R0, REAL_MVL REAL_MVL, R6 #22, 10(R6) 8(R6), R0 #11, R0 R0, PROTO_MVL+11, 11(R6) REAL_VCB, R0	1886
	ОВ	A6	0000	50 CF		08 50	C2 000D2 28 000D5	SUBL2 MOVC3	#11, RO RO, PROTO_MVL+11, 11(R6)	
				50 66		6B 50	C2 000D2 28 000D5 D0 000DC D0 000DF D0 000E2 D0 000E8	MOVL	REAL_VCB, RO RO, (R6) REAL_RVT, 32(RO) R6, 52(RO) RO, (RO) RO, 4(RO)	1887
			20 34	AO AO	00006	CF 56	DO 000E2 DO 000E8	MOVL MOVL MOVL	REAL RVT, 32(RO) R6. 52(RO)	1888 1889 1890 1891 1892
				60 A0		50	DO 000EC DO 000EF	MOVL	RO, (RO) RO, 4(RO)	1890
			04 30 40	AO	3C 3C	AO AO 7E	9E 000F3 9E 000F8	MOVL MOVAB MOVAB	60(RO), 60(RO) 60(RO), 64(RO)	1892 1893
			0000G	CF		7E 01	D4 000FD 8\$: FB 000FF	CLRL	#1. ALLOC LOGNAME	1896
50	01	AA		01		02	EF 00104 D2 0010A	CLRL CALLS EXTZV MCOML INSV MOVAB EXTZV INSV EXTZV INSV	#2, #1, MOUNT_OPTIONS+1, RO RO, RO	1900
65 A7		01		04	38	50 50 A7	FO 0010D 9E 00113	INSV	DO #/ #1 101/DDYMADY UCD) .	1904
50 64	04	AA 01		01 1E		03	EF 00117 FO 0011D	EXTZV	#3, #1, MOUNT OPTIONS+4, RO RO, #30, #1, (R4)	
64 50 64	04	AA		01 1F		04	EF 00122 F0 00128	EXTZV	56(PRIMARY UCB), R4 #3, #1, MOUNT OPTIONS+4, R0 R0, #30, #1, (R4) #4, #1, MOUNT OPTIONS+4, R0 R0, #31, #1, (R4) #3, MOUNT OPTIONS+1, 9\$ #4, MOUNT OPTIONS+1, 9\$ #1, (R4)	1905
		01 15 10	01 01	AA 64		50 03 04 01	E0 0012D E0 00132 8A 00137	BBS BBS	#3. MOUNT_OPTIONS+1, 9\$ #4. MOUNT_OPTIONS+1, 9\$ #1. (R4) #3	1906
			•	64		01	8A 00137 DD 0013A	BICB2 PUSHL		1909 1910
						6B 57	DD 0013A DD 0013C DD 0013E FB 00140 11 00145	BBS BBS BICB2 PUSHL PUSHL PUSHL CALLS	REAL_VCB PRIMARY_UCB #3. START_ACP 10\$	
			00006	CF		03	FB 00140	BRB	#3 START_ACP	1906
			000000006	00 A7		00 68	FR 00147 9%:	CALLS	#0. LOCK_IODB REAL_VCB. 52(PRIMARY_UCB)	1906 1914 1915
				64	01080001	00 6B 8F 18	DO 0014E C8 00152 8A 00159	BISL2	#17301505, (R4)	1917
			0000000G	00	0000G	00 CF	FB 0015C E9 00163 10\$:	BRB CALLS MOVL BISL2 BISB2 CALLS BLBC BISB2 BLBS BISB2 INCW PUSHL PUSHL CALLS	#0. LOCK_IODB REAL_VCB_ 52(PRIMARY_UCB) #17301505, (R4) #24, (R4) #0. UNLOCK_IODB CLEANUP_ALCOC, 11\$ #4. 101(PRIMARY_UCB) WRITE_RING, 12\$ #2. 3(R4) 92(PRIMARY_UCB) PRIMARY_UCB #1	1920
			65	A7 04	0000	04 CF	88 00168 E8 0016C 11\$: 88 00171	BISB2 BLBS	WA. 101 (PRIMARY UCB) WRITE RING. 125	1925
			03	A4	50	02	RA 001/5 12%:	BISB2	#2 3(R4) 92(PRIMARY UCB)	
						57	B6 00175 128: DD 00178 DD 0017A FB 0017C	PUSHL	PRIMARY_UCB	1927 1932
			0000G	CF 50	00006	ÖŻ CF	DD 00178 DD 0017A FB 0017C DO 00181 13 00186 9E 00188	CALLS	#2. SEND ERRLOG REAL RVT, RO 17\$	1936
				52	44	7 A	00 00181 13 00186 9E 00188	BEQL	175 68(RO), UCBLIST	1939

MRD VO4

; R

MOUTAP V04-000									15	Sep-1	1984 01:24 1984 12:45	:03 VAX-11 Bliss-32 V4.0-742 P 5:31 DISK\$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;	age 44
					59	08	A0 55 6A	9A D4 11	0018C 00190 00192		MOVZBL CLRL BRB MOVL	11(RO), R9 I	: 1940 : 1952
65	50 A3	65	A7 01		53 56 01	10	6245 A3 04 50	DO DO EF	00194 00198 00190	13\$:	EXTZV	(UCBLIST)[1], UCB 28(UCB), ORB #4, #1, 101(PRIMARY_UCB), RO	1942 1943 1944
63	K.J		VI	0B 18 34 42	556 0466 666 668 650 601	18	68 01 A8 6B A7	F 0 0 0 8 8 8 0 0 0	001A8 001AB		INSV MOVL BISB2 MOVL MOVAB BISB2 EXTZV INSV EXTZV INSV BICB2 BISB2 BISB2 INCW PUSHL CALLS AOBLSS PUSHL CALLS INCL MOVL MOVL PUSHL CALLS INCL MOVL MOVAB BISB2 INCW PUSHL CALLS INCL MOVL MOVAB BISB2 BISB2 INCW PUSHL CALLS INCL MOVL MOVAB BISB2 INCW PUSHL CALLS INCL MOVL MOVAB PUSHL CALLS INCL MOVL MOVAB PUSHL CALLS INCL MOVL MOVL MOVAB PUSHL CALLS INCL MOVL MOVL MOVAB PUSHL CALLS INCL MOVL M	16\$ (UCBLIST)[I], UCB 28(UCB), ORB M4, M1, 101(PRIMARY_UCB), RO RO, M4, M1, 101(UCB) (PRIMARY_ORB), (ORB) M1, 11(ORB) 24(PRIMARY_ORB), 24(ORB) REAL_VCB, 52(UCB) 66(PRIMARY_UCB), 66(UCB) 56(UCB), RO M524312, (RO) M30, M1, (R4), R1 P1, M30, M1, (R4), R1	1946 1947 1948
	51		64	42	A3 50 60	42 38 00080018	A7 A3 8F 1E	00 9E 6F	001B8 001BD 001C1 001C8		MOVL MOVAB BISL2	66(PRIMARY_UCB), 66(UCB) 56(UCB), RD #524312, (RO) #30, #1, (R4), R1	1946 1947 1948 1948 1950 1953 1954
	51 60 51 60		64 01 64 01		1E 01 1F		51 1F 51	FO EF	001CD 001D2 001D7		INSV EXTZV INSV	NI, WOO, WI, CHO!	1958
			04	0000G 65	60 CF A3 04	0000*	01 55 04 CF 02	88 E8	001DC 001DF 001E5 001E9	14\$:	BICB2 BBC BISB2 BLBS	#31, #1, (R4), R1 R1, #31, #1, (R0) #1, (R0) I, CLEANUP ALLOC, 14\$ #4, 101(UCB) WRITE RING, 15\$ #2, 3(R0) 92(UCB) UCB #1 #2, SEND_ERRLOG R9, I, 13\$	1960 1962 1963
				03	AO	50	A3 53 01	E88860000000000000000000000000000000000	001F7	15\$:	INCW PUSHL PUSHL	92 (UCB) UCB #1	1965 1967
			92	0000G	CF 55		02 59 6B 57	FB F2 DD	001FE 00202	16\$: 17\$:	CALLS AOBLSS PUSHL PUSHL	W2, SEND ERRLOG R9, I, 13\$ REAL VCB PRIMARY UCB	1940 1971
				0000G	CF 50	000000006	02	FB	00206		CALLS INCL MOVL	#2. SEND_ERRLOG R9. I. 13\$ REAL_VCB PRIMARY_UCB #2. ENTER_LOGNAME a#CTL\$GL_VOLUMES #1. RO	1972 1974 1975 1828
					-		7E 5E AC 03	000 04 000 04 000 70 FB	00215 00217 00219	18\$:	WORD CLRL PUSHL MOVQ CALLS	Save nothing -(SP)	1828
				0000v	7E CF	04	AC 03	7D FB 04	0021B 0021F 00224		MOVQ CALLS RET	SP 4(AP), -(SP) #3, KERNEL_HANDLER	•

Noutine Base: \$CODE\$ + 08F0

; Routine Size: 549 bytes,

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MOUTAP
                                                                                  16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
                                                                                                                 VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
V04-000
: 1453
: 1454
: 1455
: 1456
: 1457
: 1458
                    1976
1977
                               ROUTINE KERNEL_HANDLER (SIGNAL, MECHANISM) : NOVALUE =
                    1978
                               144
                     1980
                                 FUNCTIONAL DESCRIPTION:
                     1981
1982
1983
  1459
                                         This routine is the condition handler for all of the kernel mode
                                         code. It undoes any damage done so far and returns the error
  1460
                     1984
  1461
                                         status to the user mode caller.
  1462
                     1985
                     1986
  1463
                                 CALLING SEQUENCE:
                     1987
1988
1989
1990
  1464
                                         KERNEL_HANDLER (ARG1, ARG2)
  1465
  1466
                                 INPUT PARAMETERS:
  1467
                                         ARG1: address of signal vector
                     1991
  1468
                                         ARG2: address of mechanism vector
                     1992
  1469
  1470
                                 IMPLICIT INPUTS:
                     1994
  1471
                                         global pointers to blocks allocated
                     1995
  1472
                     1996
  1473
                                 DUTPUT PARAMETERS:
  1474
                                         NONE
  1475
                     1998
                     1999
  1476
                                 IMPLICIT OUTPUTS:
  1477
                     2000
                                         NONE
                    2001
2002
2003
2004
  1478
  1479
                                 ROUTINE VALUE:
  1480
                                         NONE
  1481
                     2005
                                 SIDE EFFECTS:
                    2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
  1483
                                         stack unwound, allocations undone
  1484
  1485
  1486
  1487
                              BEGIN
  1488
  1489
                              MAP
  1490
                                                             : REF BBLOCK, : REF BBLOCK;
                                         SIGNAL
                                                                                    signal vector
  1491
                                         MECHANISM
                                                                                    mechanism vector
  1492
                              LOCAL
                                                             : REF BBLOCK,
: REF BBLOCK;
: REF BBLOCK;
  1494
                                         UCB
  1495
                                         ORB
  1496
                                                                                  ! pointer to scan system lists
  1498
                              EXTERNAL
                                         MAILBOX CHANNEL,
REAL_VCB
REAL_RVT
REAL_MVL
REAL_AQB
MTL_ENTRY
   1499
                                                                                     channel number of ACP mailbox address of VCB allocated
                                                                     BBLOCK,
BBLOCK,
  1500
                                                                REF
  1501
                                                                REF
                                                                                     address of FCB allocated
                                                              2
  1502
                                                              : REF
                                                                                     address of window allocated
                                                                     BBLOCK,
  1503
                                                                                     address of AQB allocated
                                                              : REF
  1504
                                                                     BBLOCK ADDRESSING MODE (ABSOLUTE);
                                                              : REF
  1505
                                         IOCSGL_AQBLIST
                                                             : REF
  1506
                                                                                    system AQB list
  1507
  1508
                               EXTERNAL ROUTINE
  1509
                                         LOCK_IODB
                                                              : ADDRESSING_MODE (GENERAL), ! interlock system I/O database
```

MRC

V04

; F

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MOUTAP
VO4-000
                                                                                                      VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                                     UNLOCK_IODB DEALLOCATE_MEM;
                                                        : ADDRESSING_MODE (GENERAL), ! unlock system I/O database
                                                                            deallocate system dynamic memory
                              Deallocate whatever control blocks exist to wherever they came from.
                  IF .SIGNAL[CHF$L_SIG_NAME] NEQ SS$_UNWIND
                            THEN
                                BEGIN
                                IF .SIGNAL[CHF$L_SIG_ARGS] NEQ 3
THEN BUG_CHECK (UNXSIGNAL, FATAL, 'Unexpected signal in MOUNT');
                              If there is a mailbox in existence, deassign its channel, thereby
                              deleting the mailbox.
                                IF .CLEANUP_FLAGS[CLF_DEASSMBX]
                                 THEN
                                     $DASSGN (CHAN = .MAILBOX_CHANNEL);
                              If we have created an AQB but no ACP, we must remove the AQB from the
                              system list.
                                    .CLEANUP_FLAGS[CLF_DELAGB]
                                THEN
                                     BEGIN
                                     LOCK_IODB ();
P = .IOC$GL_AQBLIST;
IF .P EQL .REAL_AQB
                                          IOC$GL_AQBLIST = .REAL_AQB[AQB$L_LINK]
                                     ELSE
                                          UNTIL .P[AQB$L_LINK] EQL .REAL AQB DO P = .P[AQB$L_LINK];
P[AQB$L_LINK] = .REAL_AQB[AQB$[_LINK];
                                     DEALLOCATE MEM (.REAL_AGB, 0);
                                     UNFOCK TODB ():
                                     END:
                                 IF .REAL VCB NEQ O
                                THEN DEALLOCATE_MEM (.REAL_VCB, 0);
                                 IF .REAL RVT NEQ O
                                THEN DEALLOCATE MEM (.REAL_RVT, 0);
                                 IF REAL MVL NEG O
                                THEN DEALLOCATE MEM (.REAL_MVL, 0);
  1561
                                 IF .MTL ENTRY NEQ O
                                 THEN DEALLOCATE MEM (.MTL_ENTRY, 1);
  1566
                              Cleanup protection on primary UCB
```

MRI VO4

```
MOUTAP
V04-000
                                                                                                                                                                                                      VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1
                                                                                                                                                16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
    1567
1568
1569
1570
1571
1572
1573
1576
1577
1578
1579
                                    2090
2091
2093
2093
2094
2096
2099
2099
2101
2104
2106
2107
2108
                                                               UCB
                                                                                                            = GET_CHANNELUCB (.CHANNEL);
= _UCBLUCB$L_ORB];
                                                              ORB[ORB$L_OWNER]
ORB[ORB$L_SYS_PROT]
ORB[ORB$L_OWN_PROT]
ORB[ORB$L_GRP_PROT]
ORB[ORB$L_WOR_PROT]
UCB[UCB$L_VCB]
                                                                                                            = 0
                                                                                                           = 0
                                                                                                           = 00000
                                                           Return the condition code in RO.
    1580
1581
1582
1583
                                                               MECHANISM[CHF$L_MCH_SAVRO] = .SIGNAL[CHF$L_SIG_NAME];
                                                               END:
    1585
                                                     END:
                                                                                                                                                ! end of routine KERNEL_HANDLER
                                                                                                                                                                                        MAILBOX CHANNEL
REAL AQB, MTL ENTRY
IOC$GL AQBLIST, DEALLOCATE MEM
BUG$ UNXSIGNAL, SYS$DASSGN
SYS$UNWIND
                                                                                                                                                                        .EXTRN
                                                                                                                                                                       .EXTRN
                                                                                                                                                                       .EXTRN
                                                                                                                                                                       .EXTRN
                                                                                                                                                                        EXTRN
                                                                                                                            000C 00000 KERNEL_HANDLER:
                                                                                                                                                                                        Save R2,R3
a#IOC$GL_AQBLIST, R3
DEALLOCATE_MEM, R2
SIGNAL, R0
4(R0), #2336
                                                                                                                                                                                                                                                                                                1976
                                                                                                                                                                       . WORD
                                                                                              000000006
00006
04
04
                                                                                                                                       00002
00009
0000E
00012
                                                                                       53
52
50
8F
                                                                                                                       9F
CF
AC
AO
O1
                                                                                                                                9E 9E DO D1 12 04 D1 13
                                                                                                                                                                       MOVAB
                                                                                                                                                                       MOVAB
                                                                                                                                                                                                                                                                                                2040
                                                                                                                                                                       MOVL
                                                               00000920
                                                                                                                                                                       CMPL
                                                                                                                                      0001A
0001C
0001D 1$:
                                                                                                                                                                       BNEQ
                                                                                                                                                                       RET
                                                                                        03
                                                                                                                                                                                         (RO), #3
                                                                                                                                                                                                                                                                                                2044
                                                                                                                                                                       CMPL
                                                                                                                                      00020
00022
00024
00026
00026
00037
00037
00037
00044
00047
00046
00055
00055
00055
00058
00050
00061
00063
00068
6$:
                                                                                                                                                                       BEQL
                                                                                                                       04 13
FEFF
00000+
03 E1
CF DD
01 FB
02 E1
00 FB
63 D0
CF D0
50 D1
                                                                                                                                                                                                                                                                                                2045
                                                                                                                                                                       BUGW
                                                                                                                                                                                       <BUG$ UNXSIGNAL!4>
#3, CEEANUP FLAGS, 3$
MAILBOX CHANNEL
#1, SYS$DASSGN
#2, CLEANUP FLAGS, 7$
#0, LOCK IODB
IOC$GL AQBLIST, P
REAL AQB, R1
P, RT
4$
                                                                                                                                                                       . WORD
                                                                                                                                                                                                                                                                                                2051
2053
                                                         08
                                                                        0000G
                                                                                       CF
                                                                                                                                                                       BBC
                                                                                                        0000G
                                                                                                                                                                       PUSHL
                                                               00000000G
0000G
0000000G
                                                                                                                                                                      CALLS
BBC
CALLS
                                                                                       00
CF
00
50
51
                                                                                                                                                                                                                                                                                                2059
2062
2063
2064
                                                                                                                                                                       MOVL
                                                                                                        0000G
                                                                                                                       CF
50
06
A1
11
                                                                                                                                                                       MOVL
                                                                                                                                                                       CMPL
BNEQ
                                                                                        63
                                                                                                                                DO
                                                                                                                                                                                                                                                                                                2066
                                                                                                            10
                                                                                                                                                                       MOVL
                                                                                                                                                                                          16(R1), IOCSGL_AQBLIST
                                                                                                                                                                       BRB
                                                                                                                       A0
06
A0
F4
                                                                                                                                D1
                                                                                                                                                                                         16(P), R1
                                                                                                                                                                                                                                                                                                2069
                                                                                        51
                                                                                                            10
                                                                                                                                                                       CMPL
                                                                                                                                                                       BEQL
                                                                                                                                DO
                                                                                                                                                                                          16(P), P
                                                                                         50
                                                                                                             10
                                                                                                                                                                       MOVL
                                                                                                                                                                       BRB
                                                                                                                                                                                                                                                                                                2070
                                                                                                             10
                                                                             10
                                                                                        AO
                                                                                                                                                                       MOVL
                                                                                                                                                                                         16(R1), 16(P)
                                                                                                                                                                       CLRL
                                                                                                                                                                                         -(SP)
```

VO4

MOUTAP V04-000					16-S 14-S	1 ep-1984 01:2 ep-1984 12:4	24:03 VAX-11 Bliss-32 V4.0-74 55:31 DISK\$VMSMASTER:[MOUNT.S	2 RCJMOUTAP.B32;1 (9)
	00000000G	62 00 50	00006	51 00 00 07 75 02 07	DD 0006A FB 0006C FB 0006F DO 00076 13 0007B D4 0007D DD 0007F FB 00081 D0 00084 13 00089 D4 0008B DD 0008B DD 0008B FB 0008F D0 00092 13 00097 D4 00099 D0 0009B FB 0009B FB 0009D	PUSHL CALLS CALLS MOVL BEQL CLRL PUSHL CALLS HOVL BEQL CLRL PUSHL CALLS HOVL BEQL CLRL PUSHL CALLS FUSHL CALLS CALLS CALLS	R1 #2, DEALLOCATE MEM #0, UNLOCK IODB REAL_VCB, RO 8\$	2073 2076
		62 50	00006	7E 50 02 CF	D4 0007D DD 0007F FB 00081 D0 00084 8\$	CLRL PUSHL CALLS : MOVL	-(SP) R0 #2, DEALLOCATE_MEM REAL_RVT, R0 9\$	2077
		62	0000G	7E 50 02	D4 0008B DD 0008D FB 0008F D0 00092 9\$	CLRL PUSHL CALLS MOVL	-(SP) R0 #2, DEALLOCATE_MEM REAL_MVL, R0 10\$	2080
		62	0000G	CF 07 7E 50	13 00097 D4 00099 DD 0009B FB 0009D DO 000AO 10	BEQL CLRL PUSHL CALLS	10\$ -(SP) R0 #2, DEALLOCATE_MEM MTL_ENTRY, R0 11\$	2083
			00000	CF 07 01 50	DO 000A0 10 13 000A5 DD 000A7 DD 000A9 FB 000AB DD 000AE 11	BEQL PUSHL PUSHL	W 1	2086
	00006	62	0000G	CF 01	DD 000AE 11 FB 000B2	S: PUSHL	RO #2, DEALLOCATE_MEM CHANNEL #1, GET_CHANNELUCB 28(UCB), ORB	2092
	00000	CF 51	10	A0 61	DO 000B7 D4 000BB 7C 000BD	MOVL	28(UCB), ORB	2093
		50	18 20 34 04	A1 A1	FB 000B2 D0 000B7 D4 000BB 7C 000C0 D4 000C3 7D 000C6 D0 000CA 7C 000CF FB 000D1 04 000D8	CLRQ CLRQ CLRL MOVQ	(ORB) 24(ORB) 32(ORB) 52(UCB) 51GNAL, RO 4(RO), 12(R1) -(SP)	2093 2094 2095 2097 2099 2104
	OC	50 A1	04	AO AC AO 7E O2	DO 000CA 7C 000CF	MOVL	4(R0), 12(R1)	2105
	000000006	00		02	FB 000D1 04 000D8	CALLS	#2. SYS\$UNWIND	2108

; Routine Size: 217 bytes. Routine Base: \$CODE\$ + 0B15

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```
MOUTAP
V04-000
                                                                                                 16-Sep-1984 01:24:03
14-Sep-1984 12:45:31
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1 (
                        2109
2110
2111
  ROUTINE ERROR_HANDLER (SIGNAL, MECHANISM) =
                                       FUNCTIONAL DESCRIPTION:
                                                  This routine clears the valid bit for all but current UCB.
                                        CALLING SEQUENCE:
                                                 ERROR_HANDLER ()
                                       INPUT PARAMETERS:
                          2012234567289013233455378390442344567
                                       IMPLICIT INPUTS:
    PROTO_RVT - lists all UCB's
                                       OUTPUT PARAMETERS:
                                        IMPLICIT OUTPUTS:
                                                NONE
                                       ROUTINE VALUE:
                        2133456789012313414231445678915534567891559
                                       SIDE EFFECTS:
                                                 NONE
                                    BEGIN
                                    MAP
                                                                        : REF BBLOCK, : REF BBLOCK;
                                                                                                 ! signal vector ! mechanism vector
                                                SIGNAL
                                                MECHANISM
                                    LOCAL
                                                STATUS, UCBLIST : REF VECTOR;
                                    IF .BBLOCK[SIGNAL[CHF$L_SIG_NAME], STS$V_SEVERITY] EQL STS$K_SEVERE
                                    THEN
                                         BEGIN

UCBLIST = PROTO RVT[RVT$L UCBLST];

DECR I FROM .PROTO RVT[RVT$B NVOL$] - 2 TO 1 DO

STATUS = DO_IO ( CHAN = CHANNEL,

FUNC = IO$ AVAILABLE,

IOSB = IO_STATUS [O]);
                                           BEGIN
                                           END:
  1638
1639
                                     RETURN SS$_RESIGNAL:
                                                                                                 ! end of routine ERROR_HANDLER
```

MRD VO4

MOUTAP V04-000			084 01:24:03 VAX-11 BLiss-32 V4.0-7	742 SRCJMOUTAP.B32;1 (10)
04 04 A0	50 03 50 52 0000:	0004 00000 ERROR_H AC DO 00002 00 ED 00006 2C 12 0000C CF 9E 0000E CF 9A 00013 52 D7 00018 18 11 0001A 7E 7C 0001C 1\$: 7E 7C 00020 7E 7C 00022 CF 9F 00024	ANDLER: .WORD Save R2 MOVL SIGNAL, R0 CMPZV #0, #3, 4(R0), #4 BNEQ 3\$ MOVAB PROTO_RVT+68, UCBLIST MOVZBL PROTO_RVT+11, I DECL I BRB 2\$ CLRQ -(SP)	2109 2150 2153 2154 2157
	0000 00000000 00 E2 50 0918	11 DD 00028 CF DD 0002A 1A DD 0002E OC FB 00030 52 F5 00037 2\$: 8F 3C 0003A 3\$: 04 0003F	BRB 2\$ CLRQ -(SP) CLRQ -(SP) CLRQ -(SP) CLRQ -(SP) CLRQ -(SP) PUSHAB IO STATUS PUSHL #17 PUSHL CHANNEL PUSHL #26 CALLS #12, COMMON_IO SOBGTR I 1\$ MOVZWL #2328, RO RET	2155 2160 2161
; Routine Size: 64 bytes, ; 1640 2162 1 ; 1641 2163 1 END ; 1642 2164 0 ELUDO		+ OBEE		
; 1042 2104 0 22000	PSECT SUMMARY	Y	.EXTRN LIB\$SIGNAL, LIB\$STOP	
Name SOWNS SPLITS SCODES	Bytes 668 NOVEC. NOVEC	Attributes		
	Library Statistics		Pages Processing	
file \$255\$DUA28:[SYSLIB]LIB.L	Total 32;1 18619	Loaded Percent 156 0	Mapped Time 1000 00:02.0	

**

L 1 16-Sep-1984 01:24:03 VAX-11 Bliss-32 V4.0-742 Page 51 14-Sep-1984 12:45:31 DISK\$VMSMASTER:[MOUNT.SRC]MOUTAP.B32;1 (10)

COMMAND QUALIFIERS

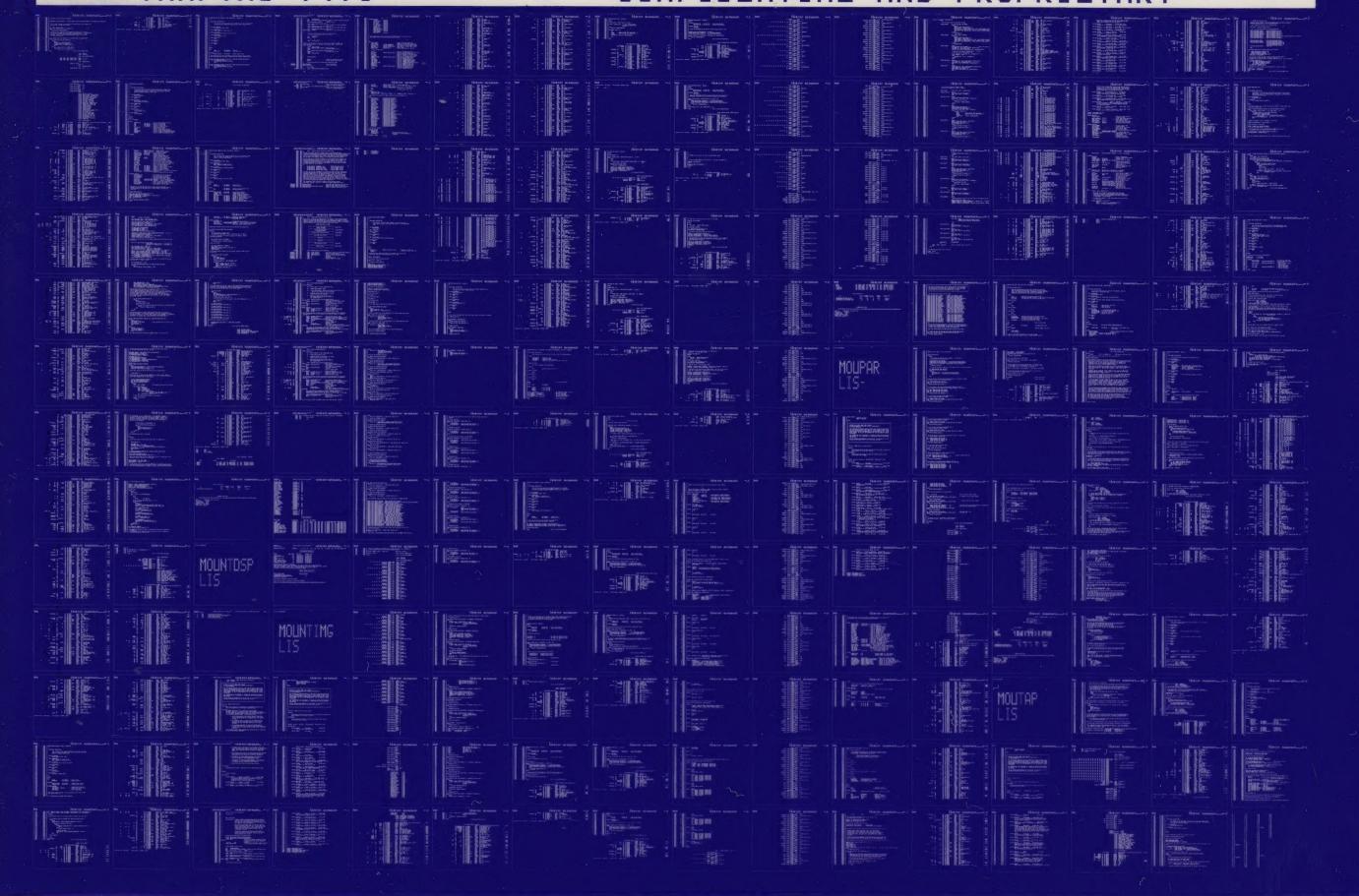
BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: MOUTAP/OBJ=OBJ\$: MOUTAP MSRC\$: MOUTAP/UPDATE=(ENH\$: MOUTAP)

: Size: 3118 code + 960 data bytes : Run Time: 00:58.2 : Elapsed Time: 01:42.1 : Lines/CPU Min: 2229 : Lexemes/CPU-Min: 22806 : Memory Used: 346 pages : Compilation Complete

MWT

0245 AH-BT13A-SE

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